

RESULTS 2

US-10-101-464A-934
; Sequence 934, Application US/10101464A.
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020cc2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 934
; LENGTH: 828
; TYPE: PRT
; ORGANISM: *Pinus radiata*
; OS-10-101-464A-934

Query Match 20.0%; Score 351; DB 9; Length 828;
Best Local Similarity 25.2%; Pred. No. 2.4e-24;
Matches 112; Conservative 62; Mismatches 123; Indels 148; Gaps 13; .

Qy 21 PNLSASQRQNCNNNDKQALQIKTALKPNTITD-SWSD- DDCGWDWECDETSNR 73
; 36 PSLFPSSSIAGYHEKRDVEALLTFRKGITDLPYQWLWNTANNHNVCLWNGJCSPTN 95
; 74 IISLIQ- DDEALTQOPIPOVGDIPYLQL- 102
; 96 VWSISLYRGRNLTSPIYGNIUSLRLHDLSSNALSGRIPAEFGQKALRLDLSNLT 155
; 103 - WFRKLPNLF-GKIPERBTSALDKLKLRLSSTSLSCPVPL 140
; 156 GSIPPCIGNRGLNGTLDVDSLW- NAFSGRIPNELFNCTRLORIDLNSLNTGSIPT 210
; 141 FFPQPLTKLTCUDLSNENKLKGIPPOSTLPNKLHNERELTGERPDIIGNFAGSPDIY 200
; 211 SIGNALCALLQKLDGTGNYLGSISPAELGRVLHLESNLNSLGSISFTSLANCTSUTDLV 270
; 201 LSHNOLTGTVPKTFARADPIR- LDFSGNRLCSDTDF 235
; 271 ISNNNLSGPIPSEFSRUVLSKFLWFEDNSISGSIPSLVNTSLSKGSNKLSGPIPS 330
; 236 LFGPKRKRLEMDFSGNVLS- FNFRVQE- FPRSLT- -YI 270
; 331 VMGLNLKSTIDLSNNSLGHIPPLFLNCFQLYLYLSTNLRLSSISIPPSITDIDVLY 390

RESULTS 3

US-10-101-464A-894
; Sequence 894, Application US/10101464A.
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020cc2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 894
; LENGTH: 705
; TYPE: PRT
; ORGANISM: *Pinus radiata*
; US-10-101-464A-894

Query Match 19.9%; Score 350; DB 9; Length 705;
Best Local Similarity 21.7%; Pred. No. 2.4e-24;
Matches 128; Conservative 55; Mismatches 126; Indels 282; Gaps 15; .

Qy 24 SASQRQNCNNNDKQALQIKTAL-KUP-TIDSWSD- DCCGWDWECDETSNR 73
; 37 SSAMRHEKDVDEALLSFRNAAITALPHGLISNWTNHNSANICSWNGIGCRKRSRRVSIYL 96
; 80 QDD- EALTQOPIPOVGDIPYLQL- 100
; 97 RFSHLEGITSPSVNQNLISLHTFVLTNKLTGTRIPPEFGQKALQFLDLYRNULSGSPVGE 156
; 101 - ALW- 103
; 157 LGIQLQKLENLHLHGNNLSEIIPPSLGNCSSSLTSLWMAGFSYRSRVLFQPGSIPAGSIPAEI 216
; 104 - FR- KLP- -NLFKGKREBEISALDKLRLSS 131
; 217 GNOSHLSLSLVRFLRFLGFPDFYRUDPSELDRFNNLTGKPKAIAULSHLTSLOGS 276
; 132 TSISGPVPLFPRPLTKLTCUDLSNENKLKGIPPOSTLPNKLHNERELTGERPDIIGNFAGSPDIY 191
; 277 NNEIGSIPKRAITMNLKRLQFLDSSNLYLGIIPPGVGLHSLEHLYLESNNLTOSIPSYN 336
; 192 NFAGSPDPIYLSNQLTGVPKTFARADPIR- -LDFSG 226
; 337 GLFSLOVLDLSNQNLEGPPIKPSIGNCTSMSRVSFAHSNKRISGTLLTSLANSTOURLDARR 396
; 227 NRLEGDI- -SFGLP- -KRLBFLDFSGNVLS- - 254
; 397 NRMGELPSYLAFFHDLKILTLAHHNLUHGPPIPQWITNUKKHVLUDLSNRFPSKULPSOLD 456
; 255 - 254

RESULTS 4

US-10-101-464A-894
; Sequence 894, Application US/10101464A.
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020cc2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 894
; LENGTH: 705
; TYPE: PRT
; ORGANISM: *Pinus radiata*
; US-10-101-464A-894

Query Match 19.9%; Score 350; DB 9; Length 705;
Best Local Similarity 21.7%; Pred. No. 2.4e-24;
Matches 128; Conservative 55; Mismatches 126; Indels 282; Gaps 15; .

Qy 24 SASQRQNCNNNDKQALQIKTAL-KUP-TIDSWSD- DCCGWDWECDETSNR 73
; 37 SSAMRHEKDVDEALLSFRNAAITALPHGLISNWTNHNSANICSWNGIGCRKRSRRVSIYL 96
; 80 QDD- EALTQOPIPOVGDIPYLQL- 100
; 97 RFSHLEGITSPSVNQNLISLHTFVLTNKLTGTRIPPEFGQKALQFLDLYRNULSGSPVGE 156
; 101 - ALW- 103
; 157 LGIQLQKLENLHLHGNNLSEIIPPSLGNCSSSLTSLWMAGFSYRSRVLFQPGSIPAGSIPAEI 216
; 104 - FR- KLP- -NLFKGKREBEISALDKLRLSS 131
; 217 GNOSHLSLSLVRFLRFLGFPDFYRUDPSELDRFNNLTGKPKAIAULSHLTSLOGS 276
; 132 TSISGPVPLFPRPLTKLTCUDLSNENKLKGIPPOSTLPNKLHNERELTGERPDIIGNFAGSPDIY 191
; 277 NNEIGSIPKRAITMNLKRLQFLDSSNLYLGIIPPGVGLHSLEHLYLESNNLTOSIPSYN 336
; 192 NFAGSPDPIYLSNQLTGVPKTFARADPIR- -LDFSG 226
; 337 GLFSLOVLDLSNQNLEGPPIKPSIGNCTSMSRVSFAHSNKRISGTLLTSLANSTOURLDARR 396
; 227 NRLEGDI- -SFGLP- -KRLBFLDFSGNVLS- - 254
; 397 NRMGELPSYLAFFHDLKILTLAHHNLUHGPPIPQWITNUKKHVLUDLSNRFPSKULPSOLD 456
; 255 - 254

US-10-101-464A-893

Query Match 18.9%; Score 331.5; DB 9; Length 692;
Best Local Similarity 33.8%; Pred. No. 1.3e-22;
Matches 96; Conservative 51; Mismatches 133; Indels 40; Gaps 10;
NUMBER OF SEQ ID NOS: 989

SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO: 897
LENGTH: 692
TYPE: PRT
ORGANISM: *Pinus radiata*
US-10-101-464A-897

Query Match 18.9%; Score 331.5; DB 9; Length 692;
Best Local Similarity 33.8%; Pred. No. 1.3e-22;
Matches 96; Conservative 51; Mismatches 133; Indels 40; Gaps 10;
NUMBER OF SEQ ID NOS: 989

QY 21 PNULSASORCNCNNNDK--QALQI-KTALKP--TITDSWVSDD--PCCGWLWECDETSNRRIISLIQDDEALTGQIPPOVQDIPYQAL-- 102
Db 33 PSUFPSSTAGYIEKRDVEALLSFRRKGISDPHGSLSD-WTANNSHVCLWNGISCRPNTN 91
QY 73 RILSLIQTDEALTGQIPPOVQDIPYQALWWRKLPFLFGKIPPEESALKQLKSRLST 132
Db 92 RUVISIUPYCR-LSGTISPYIQLSLRILYLYLSN-NDLSGRIPAEQGNLSLRQDLSN 149
QY 133 SLSGPVPLFLFPOLTKLTCFLSFNKLGVIPQSLTIPNKLHRLERNELTGBIDFGN 192
Db 150 DLSGRIPAEFGNLSLURQSDLSNNDLSDGRIPADFGNLSLURQDLSNNDLSDGRIPAEFGN 209
QY 193 FAGSPDITYLSHNQLTGFVPUKTFARRADPRL-DFSGNRLEGDTISFLFGPKRLEMDFSGN 251
Db 210 LSLRQLDLSNMAFSGRIPADIGNCALLQMFHQIYRLGSIPIAFGRVLWHLSPWLSMN 269
QY 252 VLSFNFNSRVQEPPLPSLTYLDLHNHQSGSUSE--LAKUDLOTFVNSDNLNCGKPTG- 307
Db 270 ALSGRITSLGNC-TSCLDLDINNNNSGPIPSEFFSLVSLBILWLN--DNGISGSPASI 326
QY 308 GN 309
Db 327 GN 328

RESULT 7

US-10-101-464A-893

Sequence 893, Application US/10101464A
Publication No. US20030046728A1

GENERAL INFORMATION:

APPLICANT: Strabala, Timothy

APPLICANT: Nieuwenhuizen, Nicolaas

APPLICANT: Higgins, Colleen M.

APPLICANT: Higgins, Timothy

APPLICANT: Higgins, Colleen M.

TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling

FILE REFERENCE: 11000-1020c2

CURRENT APPLICATION NUMBER: US/10/101-464A

CURRENT FILING DATE: 2002-03-18

PRIOR APPLICATION NUMBER: 09/1704302

PRIOR FILING DATE: 200-11-01

PRIOR APPLICATION NUMBER: 09/228 986

PRIOR FILING DATE: 1999-01-12

PRIOR APPLICATION NUMBER: 60/162, 866

PRIOR FILING DATE: 1999-11-01

PRIOR APPLICATION NUMBER: PCT/US00/00724

PRIOR FILING DATE: 2000-01-11

NUMBER OF SEQ ID NOS: 989

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 944
LENGTH: 370
TYPE: PRT
ORGANISM: *Pinus radiata*
US-10-101-464A-944

Query Match 18.5%; Score 325.5; DB 9; Length 370;
Best Local Similarity 28.8%; Pred. No. 1.9e-22;
Matches 97; Conservative 50; Mismatches 131; Indels 59; Gaps 9;

QY 31 NNDQALQIQTALK-NPTITDSW--SDDCCGWLWECDETSNRRIISL-- 77
Db 34 SDGATLAIKRSFRSDNVNWNIDSASSBHCMSMRGVTCONTRAWALNLSHLNGGE 93
QY 78 --IIODEALTGQIPPOVQDIPYQALWWRKLPFLFGKIPPEESALKDL 124
Db 94 ISPVIGNLKSLESIDLKGNGLGSQIPDEIGDQSKLVD-SLYNLYGDPFFSKLQL 152
QY 125 KSLRLSSTSLSGPVPLFLFPOLTKLTCFLSFNKLGVIP-- 163

Db 153 EQLIVKUNQKMPPIPSLQSQINNUKNUFADQNLGSEIPRLIYNEVILQYLGRLRNFLVG 212
 Qy 164 ---PQSTLNUKALHLERNELTGEIDIFGNFAGSPDPIYLSHQNLQGCFVPKTFARADPI 220
 Db 213 TUSPDQMCQLTGLWFFDVGRNNLSGTIPENIGNTSYAVLDNSYNQNLIGEIPRNIGFLQVA 272
 Qy 221 RUDFSGNRLEGDISFLFGPKRLEMDFSGNVLSFNSRVOEFPPISTYLD---LHNHQI 277
 Db 273 TUSLQGNKLTGKIPPEVIGMGLALTVLTDSDHLT---GTISILGNTYTDKLYLHSNLL 329
 Qy 278 SGSLSSBLAKL-DLQTFNVSNNLCRCKIPTG-GNLR 312
 Db 330 TGSIPPELGNTKLGQLQNDNQTCQIPPELGNLHQ 366
 RESULT 9
 US-10-101-464A-660
 ; Sequence 660, Application US/10101464A
 ; Publication No. US200301046728A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Nieuwenhuijzen, Nicolaas
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells
 ; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 ; FILE REFERENCE: 11000.1002c2
 ; CURRENT APPLICATION NUMBER: US/10/101,464A
 ; CURRENT FILING DATE: 2002-03-18
 ; PRIOR APPLICATION NUMBER: 09/704,302
 ; PRIOR FILING DATE: 2000-11-01
 ; PRIOR APPLICATION NUMBER: 09/228,986
 ; PRIOR FILING DATE: 1999-01-12
 ; PRIOR APPLICATION NUMBER: 60/162,866
 ; PRIOR FILING DATE: 1999-11-01
 ; PRIOR APPLICATION NUMBER: PCT/US00/00724
 ; PRIOR FILING DATE: 2000-01-11
 ; NUMBER OF SEQ ID NOS: 989
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 943
 ; LENGTH: 541
 ; TYPE: PRT
 ; ORGANISM: Eucalyptus grandis
 ; US-10-101-464A-913
 Query Match Best Local Similarity 18.3%; Score 320.5; DB 9; Length 541; Matches 118; Conservative 67; Mismatches 136; Indels 205; Gaps 15;
 Qy 6 SFPCPILCTCMWIFGFLPNLNASQSRQCNNDQOALIOIKTALKNPKITDSWMSDDC---CGWD 63
 Db 17 SYIP---CLVFLCLLSNAESQIODOQOVLKLRQSWRDPSSLQDHWVASNSSHTCPW 72
 Qy 64 LVSCDSETNSRIL---IDPDEAT----- 86
 Db 73 EITCQEGSISELNULNUNLNINYSTPPFICDLKSTIKLDSYNNPGGFTVLYNGSKLVL 132
 Qy 87 -----GOIPQVQDIPYQAA----- 101
 Db 133 DLQQNYFEGPIPSPDINRMANLQVLAANSFFSNVPASVARLRLRILHLNQSEYNGTYP 192
 Qy 102 -----LWFRKLP---NLFGKIPPEIS----- 119
 Db 193 EETFGLSNLEELSLIGYNDKFVPSQLPONFTSLKLRFLFSPMONTLYGIPERISMEALE 252
 Qy 120 -----ALKDKLKSRSLSSTSSLSSGVPVPLFFPQLKUTCLDSFNKUNGIVIPQSLSTPUPNLUKALHLERNE 161
 Db 253 HLDVGINPLTGIPGSIFALRNLUKLVYNTWGSIPQSV-SAANLRSIDFESFNLTGN 311
 Qy 123 DLKSLRSSTSLSGPVPLFFPQLKUTCLDSFNKUNGIVIPQSLSTPUPNLUKALHLERNE 182
 Db 120 SLTRVRMGNVNLANGSFPEGLYLKPLKUMGFPEHDYVLSGSIPPKSTVNTSSLIGHTLSNRL 179
 Qy 73 LLEVDLSSNK-----LTGFPPDLCIGGKQQLIL---LENFFGPIPELGNCE 119
 Db 183 TGEIPDIFGNFAGSPDPIYLSHQNLQGCFVPKTFARADPI-RUDFSGNRLEGDISFLFGPKK 241
 Qy 180 TGPLPDPSIGKFSNLQQLLILDNGQFTGSIPEBIGHLKLRSKNDPFSGNRGPPEISYCK 239
 Db 242 RUEMIDFSGNWLSFNFNSRVRQEPFPT-----YLDLNHOISGSLSEL-A-KLQLQTEN 294
 Db 240 HLAFLDLSRNELSGPIS-----PQTKMRILYUNISRNHLVGSIPREIAGMSLTSVD 293
 Qy 295 VSDNNLQCGKIPPTGIGNLQRFDTAYLHNCHLQGAPLPE 332
 Db 294 FSYNNLGLVPGTGGFQSFYFVATSFAGNPELGGPYLGPC 331
 Qy 492 DASNNLUSGTTPELTKLPPSGGAFARSERALWMSSDSHCFVUEL 537
 RESULT 11

RESULT 10
US-10-101-464A-913
; Sequence 913, Application US/i10101464A

; APPLICANT: Nieuwenhuizen, Nicolaas
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells
 ; and Their Use in the Modification of Plant Cell Signaling
 ; FILE REFERENCE: 11000_1020c2
 ; CURRENT APPLICATION NUMBER: US/10/101,464A
 ; CURRENT FILING DATE: 2002-03-18
 ; PRIORITY APPLICATION NUMBER: 09/704,302
 ; PRIORITY FILING DATE: 2000-11-01
 ; PRIORITY APPLICATION NUMBER: 09/228,986
 ; PRIORITY FILING DATE: 1999-01-12
 ; PRIORITY APPLICATION NUMBER: 60/162,866
 ; PRIORITY FILING DATE: 1999-11-01
 ; NUMBER OF SEQ ID NOS: 989
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 642
 ; LENGTH: 919
 ; TYPE: PRT
 ; ORGANISM: Eucalyptus grandis
 ; US-10-101-464A-809

Query Match 18.2%; Score 320; DB 9; Length 919;
 Best Local Similarity 28.5%; Pred. No. 2.4e-21; Mismatches 114; Indels 92; Gaps 9;
 Matches 99; Conservative 42; Pairs 114; Gaps 9;

Qy 64 LVVCDDETSNRISLIIQDDEALTGQIPPOVQDPLPYQAL-WFRKLPLNFGKIPPEISAL 121
 Db 175 LSQCSQKQKIRFLS---NVLVSIPAEGMLENLEQLIWFN--GLEGEIPPELGK 440

Qy 122 KQKSLRSLSSLSGSPVPLFPLQTKTCLDLSFNKLGKVPPOQSTLPNPKALHNERNE 181
 Db 227 RNQKLLINNNHKGEPTEFLFCNSLWISLTSNELTGEVPREVMILSRLAVLQGNS 286

Qy 182 LTGEIPDIFGNFAGSPDYLSPHNLQTLGVPK----- 212
 Db 287 LSCQIPWELGNCSSLWLDLSSNKLGEIPPRIGRQLGAKGPAGIPSGNTLVFVRNVGNT 346

Qy 213 -----TFAA--ADP-----RUPSGNLEGD 232
 Db 347 CKGVGGULEFAGIRPERLQLQVPSLRTCNFARMYSPGILSKFETYQTVYLDLSDNQLRK 406

Qy 233 ISFLFGPKKRLEMFLDESGNVNSFNSRVOQFPPSLYIYL---DLNHNQTSGSUSSELA 286
 Db 407 IPEEEFGDNVALQVLELSYNQSL---GELPSSLQLKDGUVFRESHNRLQGQIPDSFS 460

Qy 287 KLD-LOTFNVDNNLNUCKIPGGNLQRFDRTAYLHNCLCGAPLPEC 332
 Db 461 NLSFLVQIDLSYNDLQQIPQGQLSTLPASOYEHNPGLCGVPLPEC 507

RESULT 12
 US-10-101-464A-809
 ; Sequence 809, Application US/10/101,464A
 ; Publication No. US20030046728A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells
 ; and Their Use in the Modification of Plant Cell Signaling
 ; FILE REFERENCE: 11000_1020c2
 ; CURRENT APPLICATION NUMBER: US/10/101,464A
 ; CURRENT FILING DATE: 2002-03-18
 ; PRIORITY APPLICATION NUMBER: 09/704,302
 ; PRIORITY FILING DATE: 2000-11-01
 ; PRIORITY APPLICATION NUMBER: 09/228,986
 ; PRIORITY FILING DATE: 1999-01-12
 ; PRIORITY APPLICATION NUMBER: 60/162,866
 ; PRIORITY FILING DATE: 1999-11-01
 ; PRIORITY APPLICATION NUMBER: PCT/US00/00724
 ; PRIORITY FILING DATE: 2000-01-11

; SEQ ID NO: 954
 ; LENGTH: 1021
 ; TYPE: PRT
 ; ORGANISM: Eucalyptus grandis
 ; US-10-101-464A-954

Query Match 18.2%; Score 319.5; DB 9; Length 1021;
 Best Local Similarity 25.6%; Pred. No. 3.1e-21; Mismatches 100; Conservative 40; Pairs 111; Indels 139; Gaps 9;

Qy 75 ISLIQDDEA--LTGQIPPOVQDPLPYQALWTRKLPLNFGKIPPEISALDKLSLRS 131
 Db 245 LSQVRLDAAASCGLUSGEIPPEIAKQNLDTL-FLOVNGFAGSLPAEIGYLNLSKSLDSN 303

QY 132 TSLSCPVPLFPQPLRKLTCI----- 151
 Db 304 NMFAEIPESFSQSKNLTLLHFRNKLNGESPEFTADLPELQVQLWENNFTGSIPOLG 363
 QY 152 -----DLSENKULGVIPQQL----- 167
 Db 364 KNGHLQIVDLSNKLUTGTPPLCGYGNQQLQILIALSNVLLGPIFESLGKCRSLERIRMG 423
 QY 168 -----TIPNLKALH----- --LERNELGEIDIF 190
 Db 424 NYLNGSIPRGLFGCPELNUOVERQDNLLGEFPVPSDSALKLGQQTISNNKUGGLPPTI 483
 QY 191 GNFAGSPDYLSHNQLTGFVPKTFARADPI-RUDFSGNRLEGDISFLFGPKGRLEMDFS 249
 Db 484 GNFSSVQKLUDGNNFSGQIPPEIGRLQOLAKIDPSSNRYSGPPIPAQISOCKLTTEVDLS 543
 QY 250 GNTLSENFNSRVQFPPSIT-----YUDLNHNOISGSLSSEJAKL-DLQTFNVSDDNLCG 302
 Db 544 GNBL-----GBPNEITGMRLINYLNLSNNLGSIPPSTISMOSLTSVDFSYNNLGS 597
 Qy 303 KIPGGNLQRFDRTAYLHNNSCLCGAPLPEC 332
 Db 598 LVPGTGQFSYFVNTSFLGUNPELCPGPGC 627

RESULT 14
 US-09-823-394-2
 ; Sequence 2, Application US/09823394
 ; Publication No. US2003041344A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Chory, Joanne
 ; APPLICANT: Jiaming, Li
 ; TITLE OF INVENTION: Salk Institute for Biological Studies
 ; FILE REFERENCE: SALKNS-012CP1
 ; CURRENT FILING DATE: 2001-03-30
 ; PRIORITY APPLICATION NUMBER: 08/881,705
 ; NUMBER OF SEQ ID NOS: 2
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 2
 ; LENGTH: 1196
 ; TYPE: PRT
 ; ORGANISM: Arabidopsis
 ; US-09-823-394-2

Query Match
 Best Local Similarity 18.0%; Score 315.5; DB 9; Length 1196;
 Matches 112; Conservative 48; Mismatches 143; Indels 93; Gaps 13;

QY 20 LPNTISAS---QRCNNNDKQALQIQTALKNP---TITSWWSDDCCGW---DLVCEDET 70
 Db 385 LTNISASLTDLDSNNSGPIL--PNLQCNPKNTQELYLYLQNGFTKIPPLTSNGSE- 441
 Qy 71 SNRISLTIQDALTGQIPQVGDPLIQ--ALWFRKLPLNFGKIBEISALKDKLSR 128
 Db 442 --LVSILHUSN-YLSGTIPSSLSKURDLKWLWNLLE--GEIQLMVKTEBLI 494
 Qy 129 LSSTSLSPVPLFPQLKUTLDSFKRLGUTPQSTLNKALHRLERLTERIPD 188
 Db 495 LDFNDLTGEIPSLNSNCNTLNWMSLSSNRLTGSBPKWIGRLUENLAIKLSNNFSNSNPD 554
 Qy 189 IFGNFAGSPDYLHNOITGFVPKT-FARADPRLDF-----SGN 227
 Db 555 EGDGRSLSIWMDINTLNGTIPAMFKQSGKIAANFLAGRKYVYIKNDGMKKECHGAGN 614
 Qy 228 RUE-----GDSFLCOPKKRLEMDFSGNVLSFNFSRVQ 261
 Db 615 LIEFOGIRSEOLNRLSTRNPNCTNRSVYGGHTSPTFDUNGSWMLMSYNMLSGVIPKEI 674
 Qy 262 ERPSSTYTLIDUNHNOISGSLSSEL-----KLD-----LQTFNVS 296

Query Match
 Best Local Similarity 17.9%; Score 314.5; DB 8; Length 1161;
 Matches 107; Conservative 52; Mismatches 125; Indels 69; Gaps 14;

Qy 11 LICIMFLCPLNLSASORCNCNNNDKQALQIQTALKNP---TITSWWS-DDCCGWDLVCE 68
 Db 73 LILCVFPL---VHGALSSDPSKASALELKASFSDDSSGVISSWSSRNNDCSWFGVSCD 128
 Qy 69 ETSNRITSLI-----ODDEALTGQIPQVGDPLIQ 100
 Db 129 SDS-RVVALNITGGNGLSLSACKIAQFPLYGGFTRVCANNNSVKLVGKVPLAISKTELR 187
 Qy 101 ALWFRKLPL--NLFGKIPPEE-SALKDKLSRSLSTISLSPVPLFFFOLTKLTCIDLSFNKL 158
 Db 188 VLI--SLPFWBLRGLDIPGLIWMDKLUEDLQGNLTGSLPFLFGKLRKURVNLGFOI 244
 Qy 159 LGVIPQPLSLPNUKALHNERLTELGEIDIFGNGPDIYLSHNLQTGFVPKTFARA- 217
 Db 245 VGAIPNLSNLQALQIFNLAGNRNGTIPAFISGFEDURGIYLSFNLSLSSIPBEIGRSC 304

Qy 218 DPR-LDFSCNRLEGDISFLFGPKRLEMDFSGNVLS---FNFSRVQEFFPSLTYLDL 272

OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 61.202 Seconds
(without alignments)

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues.

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued patents Ab:
1: /cgn2_6/ptodata/1/1aa/5A_COMB.pep:
2: /cgn2_6/ptodata/1/1aa/5B_COMB.pep:
3: /cgn2_6/ptodata/1/1aa/6A_COMB.pep:
4: /cgn2_6/ptodata/1/1aa/6B_COMB.pep:
5: /cgn2_6/ptodata/1/1aa/PCTUS_COMB.pep:
6: /cgn2_6/ptodata/1/1aa/backfile1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match Length | DB ID | Description |
|------------|-------|--------------------|--------|-------------------|
| 1 | 881.5 | 50.2 | 330 1 | US-08-238-163-2 |
| 2 | 844 | 48.1 | 327 1 | US-08-238-163-4 |
| 3 | 622 | 35.4 | 342 1 | US-08-592-936B-21 |
| 4 | 622 | 35.4 | 342 2 | US-09-111-573-21 |
| 5 | 464.5 | 26.5 | 227 1 | US-08-244-646-17 |
| 6 | 352 | 20.0 | 910 4 | US-09-228-986-72 |
| 7 | 322.5 | 18.4 | 968 4 | US-09-180-439-4 |
| 8 | 319.5 | 18.3 | 968 4 | US-09-180-439-3 |
| 9 | 315.5 | 18.2 | 1016 4 | US-09-180-439-8 |
| 10 | 315.5 | 18.0 | 1196 4 | US-09-188-706-2 |
| 11 | 315 | 17.9 | 1112 4 | US-09-353-585-3 |
| 12 | 311.5 | 17.7 | 999 2 | US-09-473-553A-5 |
| 13 | 300.5 | 17.1 | 799 4 | US-09-45-983-2 |
| 14 | 300.5 | 17.1 | 1012 2 | US-08-475-891A-4 |
| 15 | 294.5 | 17.1 | 1022 2 | US-08-567-375-4 |
| 16 | 294.5 | 17.1 | 1025 2 | US-08-587-680A-4 |
| 17 | 294.5 | 16.8 | 17.1 | US-08-228-986-76 |
| 18 | 294.5 | 16.8 | 947 4 | US-09-228-986-73 |
| 19 | 283 | 16.1 | 863 2 | US-08-666-271-2 |
| 20 | 278.5 | 15.9 | 805 2 | US-08-945-983-2 |
| 21 | 273 | 15.5 | 980 2 | US-08-473-553A-6 |
| 22 | 273 | 15.5 | 985 2 | US-08-473-553A-2 |
| 23 | 268 | 15.3 | 986 4 | US-09-228-986-76 |
| 24 | 264 | 15.0 | 523 2 | US-08-473-553A-3 |
| 25 | 260.5 | 14.8 | 690 4 | US-09-228-986-69 |
| 26 | 260.5 | 14.8 | 711 4 | US-09-228-986-79 |
| 27 | 260.5 | 14.8 | 711 4 | US-09-228-986-79 |

ALIGNMENTS

RESULT 1
US-08-238-163-2

Sequence 2, Application US/08238163
Patent No. 556830

GENERAL INFORMATION:

APPLICANT: BENNETT, Alan
APPLICANT: LABAVITCH, John M.
APPLICANT: POWELL, Ann
APPLICANT: STIZZ, Henrik

TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Khourie and Crew
STREET: Steuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/238,163
FILING DATE: 03-MAY-1994
CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE DOCKET NUMBER: 2307E-540

TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 330 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-238-163-2

Query Match 50.2%; Score 881.5; DB 1; Length 330;
Best Local Similarity 54.7%; PPred. No. 1.7e-87;
Matches 181; Conservative 41; Mismatches 106; Indels 3; Gaps 3;

QY 3 IESSFCPLICMIFLCLPNLNSQRQNNKKQALQIKTALKNPKTRTDSWVSPDDCCGW 62
Db 1 MELKFSTFLSLTFLFSSVLPALSDLQNPDKRKLQIKAFFGDPVYLASWKSDBCCDW 60

Qy 63 DLVEODETSNRISIILIQDDEALTGQIIPQVGDPLVQALMFRKLPNLEGKIPPEISALK 122
 Db 61 YCVTCDSTTNRINLTFAGQ-VSGQIPALVGDLPYLETFHKOPNLTCPIQAIKLUK 119

Qy 123 DLKSLRSLSSLSGPVPLFLPQLTKTCLDSFLNKLGLGVPPQISTLPNKAHLERNEL 182
 Db 120 GLKSURLSWNLNSGVPDFLSPQKULTFDLSFLNKL 179

Qy 183 TGEIPDIFGNFAGS-PDIYIUSHNQLTGFKVTFARADPTRLDFSONRLGDISLFGPKK 241
 Db 180 TGHIPISFGOFGIGNPDLYLHSNQSGNIPSFQAQMDFTSIDLSRNKLEGDASVIFGLNK 239

Qy 242 RLEMIDFGSGWNLNFNSRVQEFPPSLTYLDLNHOISGSISSELAKLDOIOTFNNSDNMNC 301
 Db 240 TTQIVDLSRNLLFENLNS-BFPSTSVDINHNIKYGSIPVFQNLNFQFLNVNSYRLC 298

Qy 302 GKIPIGNGNLRDFRAYLHSCLCGCAPLPC 332
 Db 299 GQIPVGKGKQSFDEVSYFHRCCLCGAPLPC 329

RESULT 2
 US-08-218-163-4
 Sequence 4, Application US/08238163
 Patent No. 5569330

GENERAL INFORMATION:
 APPLICANT: BENNETT, Alan
 APPLICANT: LABAVITCH, John M.
 APPLICANT: POWELL, Ann
 APPLICANT: STOTZ, Henrik
 TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL POLYALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
 NUMBER OF SEQUENCES: 24
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend Khourie and Crew
 STREET: Steuart Street Tower, One Market Plaza
 CITY: San Francisco
 STATE: California
 COUNTRY: US
 ZIP: 94103-1493

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/238,163
 FILING DATE: 03-MAY-1994
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Bassian, Kevin L.
 REGISTRATION NUMBER: 34-774
 REFERENCE/DOCKET NUMBER: 23077-540
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 543-9600
 TELEFAX: (415) 543-5043
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 327 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-218-163-4

Query Match 48.1%; Score 844; DB 1; Length 327;
 Best Local Similarity 52.8%; Pred. No. 2.1e-83; Matches 171; Conservative 46; Mismatches 103; Indels 4; Gaps 3;

Qy 11 LCICMIFLCLPNLNSASQRCNNNDQKQLOIKAATKKNPITDSAWSDDCCGWLVECDT 70
 Db 5 LLLVVFICFASPRPLSVRENPKDDKVKLQIKDQGNPHLASWDPNTCCYWVTKDK 64

RESULT 3
 US-08-244-646-15
 Sequence 15, Application US/08244646
 Patent No. 574692

GENERAL INFORMATION:
 APPLICANT: Cervone, Felice
 APPLICANT: De Lorenzo, Giulia
 APPLICANT: Salvi, Giovanni
 APPLICANT: Albersheim, Peter
 APPLICANT: Darvill, Alan
 APPLICANT: Bergmann, Carl
 TITLE OF INVENTION: Nucleotide Sequences Coding An Endopolygalacturonase Inhibitor
 NUMBER OF SEQUENCES: 17
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sally A. Sullivan
 STREET: 5370 Manhattan Circle Suite 201
 CITY: Boulder
 STATE: CO
 COUNTRY: US
 ZIP: 80303

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/244,646
 FILING DATE: 06-JUN-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: IT RM 91A 000915
 FILING DATE: 06-DEC-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: WO PCT/IT/00158
 FILING DATE: 04-DEC-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Sullivan, Sally A.
 REGISTRATION NUMBER: 32,064
 REFERENCE/DOCKET NUMBER: 1A-94
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (303) 999-8080
 TELEFAX: (303) 499-8089

INFORMATION FOR SEQ ID NO: 15:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 342 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-244-646-15

Query Match 35.4%; Score 622; DB 1; Length 342;

Best Local Similarity 41.0%; Pred. No. 3.1e-59; Mismatches 127; Indels 20; Gaps 7; Matches 141; Conservative 56; Mismatches 127; Indels 20; Gaps 7; Query Match 35.4%; Score 622; DB 1; Length 342; Best Local Similarity 41.0%; Pred. No. 3.1e-59; Mismatches 141; Conservative 56; Mismatches 127; Indels 20; Gaps 7; Matches 141; Conservative 56; Mismatches 127; Indels 20; Gaps 7; Query Match 35.4%; Score 622; DB 1; Length 342;

QY 2 NIESSFCPILCICMIFCLCPNLNSASORCENNNDKQALQIKTALKNPTITDSWSSDDCCG 61
 Db 5 NIPTMSSLSILIVLVLVSLRTALSELCNPODKQALQIKKDQGNGNPTLSSWLPPTDCCN 64
 QY 62 -WDLVEDETSN-RISLIQDEALTQ-----IPQVGDPLQALWFRKLPLN 110
 Db 65 RTWLGVLCDTDTOTYVNL----DLSGHNLPKVPISSLANLFLNLYIGGNNL 118
 QY 111 FGKIPPEISALKDKSRLSSTSLSGPVPLFFPQLTKTCLSLFENKLGVIPPQSTLP 170
 Db 119 VGPPIPAKLUQHLYIHTHNSGAIPDFLSQIKLVTLDFSYNALSGTLPSSSLP 178
 QY 171 NIKALHLERNEHTGETDIFGNGFAG-SPDYLISHNQLTGFVPKTFARADPRLDGSNRL 229
 Db 179 NUGGIFTDGNRISGAIPDSYGSFSKLFATMTISRNLRTGKIPPTFANLNFVDSLRLNML 238
 QY 230 EGDISLFQPKRGLMUDFGNVLSNFNSRQVEPPSLTYDLNHNOISGSLSSELAKE 289
 Db 239 EGDAVLFGSDKNTKKHLAKNSLAFLDGLKV-GLSKNLNGLDRNRRYIGTLPOGLTOLK 297
 QY 290 -LQTFNVSNDNLCLGGKIPGNGNQRFDRTAYLHNSCLCGAPLPEC 332
 Db 298 FLSQSLNVSFNLCLGCEIPQGNGNLKRFDVSSYANNKCLCGSPPLPSC 341

RESULT 4
 US-08-592-936B-21
 ; Sequence 21, Application US/08592936B
 ; Patent No. 5783393
 ; GENERAL INFORMATION:
 ; APPLICANT: Kellogg, Jill A.
 ; ATTORNEY: Bestwick, Richard K.
 ; TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR
 ; NUMBER OF SEQUENCES: 27
 ; CORRESPONDENCE ADDRESS: Dehlinger & Associates
 ; STREET: 350 Cambridge Avenue, Suite 250
 ; CITY: Palo Alto
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94306
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FastSEQ for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/592,936B
 ; FILING DATE: 29-JAN-1996
 ; CLASSIFICATION: 800
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Evans, Susan T.
 ; REGISTRATION NUMBER: 38,443
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (650) 324-0880
 ; TELEFAX: (650) 324-0960
 ; INFORMATION FOR SEQ ID NO: 21:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 342 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; HYPOTHETICAL: NO
 ; ORIGINAL SOURCE:
 ; INDIVIDUAL ISOLATE: predicted amino acid coding sequence
 ; INDIVIDUAL ISOLATE: of SEQ ID NO:20

RESULT 5
 US-09-111-573-21
 ; Sequence 21, Application US/09111573
 ; Patent No. 5919302
 ; GENERAL INFORMATION:
 ; APPLICANT: Kellogg, Jill A.
 ; ATTORNEY: Bestwick, Richard K.
 ; TITLE OF INVENTION: PLANT TISSUE / STAGE SPECIFIC PROMOTERS FOR
 ; NUMBER OF SEQUENCES: 27
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Dehlinger & Associates
 ; STREET: 350 Cambridge Avenue, Suite 250
 ; CITY: Palo Alto
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 94306
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FastSEQ for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/111-573
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIORITY INFORMATION:
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/592,936
 ; FILING DATE: 29-JAN-1996
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Evans, Susan T.
 ; REGISTRATION NUMBER: 38,443
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (650) 324-0880
 ; TELEFAX: (650) 324-0960
 ; INFORMATION FOR SEQ ID NO: 21:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 342 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; HYPOTHETICAL: NO
 ; ORIGINAL SOURCE:

NAME: Silva, Robin M.
 REGISTRATION NUMBER: 38,304
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 781-1989
 TELEFAX: (415) 398-3249
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 999 amino acids
 TYPE: amino acid
 STRANDBEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 US-08-473-553A-5

Query Match 17.7%; Score 311.5; DB 2; Length 999;
 Best Local Similarity 20.6%; Pred. No. 9.7e-25; Mismatches 125; Indels 143; Gaps 16;
 Matches 115; Conservative 49; Mismatches 125; Indels 143; Gaps 16;

QY 7 FCPICICMFLCIPNLNSAQSQRCHNNNDKALQQTALKNPTT-DSWWSDDCC-CGWD 63
 Db 3 YCLLILCLLCSSTYPSLSL---NQDATILRQAKLGSQDPAOSSLSSNDNNWTPCKWL 57

QY 64 LVECDETSN-----RRI 75
 Db 58 GVSQDATSNVSVDSLSSFMLVGPPFPSILCHLPSLHSLSLYNNNTSISADDFTCHNL 117

QY 76 SIIQDDEALTQGIPPQVG-DLPIQLAB-----WFRKLP----- 108
 Db 118 SLDLSEN-LIVGSPKSLPENLPNLPNLFITSGNNLSDTIPSSFGEFRKLESLNLAGNFS 176

QY 109 -----NLF-GKPEEISAKDLSRUSSTSISGPVPLFFPOLT 146
 Db 177 GTIPASLGNVTTKELKLAVNLPSQISQISLNUTELQVLMAGNCNUGPPIPSSLRLT 236

QY 147 KLTICIDLSFNKLGLGVIPPOQSTLNLKALHLERNELTGIPDFFGN-----FAGS--- 196
 Db 237 SLVNLDLTFNQLTSSIPSWITQKTVQIEFLNNSFSGELPESMGNMTLKRFDASMKL 296

QY 197 -----PD-----IYLHNQLTGFVPKTFARADPI-RLDFFSGNRLLGQDLSFLFGPKKR 242
 Db 297 TGKIPDNLNLNLSLNLNFBNMLBGPPLPESITRKTLSLKLFLNRLTGVLPSQGANSPL 356

QY 243 LEMMDFSGNLNSFNSRVOQFPPS-----LTVIDLNHQISGSSISSELAKL-DLQTFNV 295
 Db 357 LOYVPLSYNRF-----GEPANVGEGKLEYLILIDNSFSGBISNLGKCKSLTRVRL 410

QY 296 SDNNIUCGKIPGT 307
 Db 411 SNNKLUQSGQIPHG 422

RESULT 15
 US-09-180-439-6
 Sequence 6, Application US/09180439
 Patent No. 6,225,322
 GENERAL INFORMATION:
 APPLICANT: Dixon, Mark S
 APPLICANT: Hatixanthis, Kostas
 APPLICANT: Jones, Jonathan DG
 APPLICANT: Jones, David A
 TITLE OF INVENTION: Plant pathogen resistance genes and uses thereof
 FILE REFERENCE: 620 - 53
 CURRENT APPLICATION NUMBER: US/09/180,439
 CURRENT FILING DATE: 1998-12-06
 EARLIER APPLICATION NUMBER: PCT/GB97/01249
 EARLIER FILING DATE: 1997-05-08
 EARLIER APPLICATION NUMBER: GB 9609681.3
 EARLIER FILING DATE: 1996-05-09
 EARLIER APPLICATION NUMBER: GB 9619924.5
 EARLIER FILING DATE: 1996-09-24
 NUMBER OF SEQ ID NOS: 10

SEARCH COMPLETED: July 16, 2003, 06:59:07
 Job time: 62.202 secs

SOFTWARE: PatentIn ver. 2.0
 SEQ ID NO 6
 LENGTH: 799
 TYPE: PRT
 ORGANISM: *Lycopersicon esculentum*
 US-09-180-439-6

Query Match 17.1%; Score 300.5; DB 4; Length 799;
 Best Local Similarity 29.5%; Pred. No. 1.1e-23; Mismatches 105; Indels 57; Gaps 12;
 Matches 105; Conservative 47; Mismatches 147; Indels 57; Gaps 12;

QY 30 NNDKQDQIQLQRTALKNPT-TITDSWVSDDCC-GDLDVGC----- 67
 Db 27 STEATALLKWKATFQNQNSFLASHTSSNACKWQYGVQCLNGRVTNTINASVIGL 86

QY 68 -----DETSNRI-----ISLIQD-DEALTQIIPPOVGDUPLYQ 100
 Db 87 YAPPFSSLPLFENLDSNNNISGTTIPPEIGNLTWYLDNTNQISGTTIPQIGSLAKLQ 146

QY 101 ALWFRKLPN-LFCKIPEEISAKDLSRUSSTSISGPVPLFFPOLTQKLCIDSPNKL 159
 Db 147 II-RIFNNHUNGFLPEBIGHYRSLSRKLSCINFLSGSIPASLGNMTNSFLFLYENOLS 204

QY 160 GVPPOQSTLNLKALHLERNELTGIPDFFGNFAGSPDYLQSHQLTGVPKTFARADP 219
 Db 205 GRIPEEIGYLSLKSITKSLDINFLSSIPASLGNMTNSFLFLYENOLS 264

QY 220 IR-LDPSGNRRLREGDLSFLFGKRLBMLDPSGNVLSFNSRVRQEPPLSYTDLHNOIS 278

QY 265 LYVLDKRNALANGSIPASLGNLNNNUSRLYLYNNQISGSIPEBIGHYRSLSL 324

QY 279 GSSLSELAKL-DLQTFNVSNDNLGCGKPT-GGNIQRDFDRAYLHSCLCCAPPEC 332

Db 325 GLIPASFGNMRNLQALFNDNNLIGBIPSPFCVNLTSL-EIYMPRNNLKG-KVPOC 378

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OM protein - protein search, using sw model
Run on: July 16, 2003, 06:51:00 ; Search time 6.91162 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-1
Perfect score: 38
Sequence: 1 LPNLFGK 7

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 11875970 residues
Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA+
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4: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB_pep:*

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8: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB_pep:*

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13: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB_pep:*

14: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB_pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

RESULT 1

US-09-899-482-3
Sequence 3, Application US/09899482
Patient No. US2020006641A1

GENERAL INFORMATION:

APPLICANT: Quax, Wilhelmus J.
TITLE OF INVENTION: Increasing Production of Proteins in Microorganisms

FILE REFERENCE: G0385-PCT
CURRENT APPLICATION NUMBER: US/09/899,482

CURRENT FILING DATE: 2001-07-05
PRIOR APPLICATION NUMBER: EP 97305286.3
PRIOR FILING DATE: 1997-07-16
PRIOR APPLICATION NUMBER: EP 97305344.0
PRIOR FILING DATE: 1997-07-17

SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 3
LENGTH: 615
TYPE: PRT
ORGANISM: E. coli
US-09-899-482-3

Query Match Similarity 89.5%; Score 34; DB 10; Length 615;
Best Local Similarity 85.7%; Pred. No. 57; Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LPNLFGK 7
Db 25 LPNLFGK 31

RESULT 2
US-09-312-762A-4
Sequence 4, Application US/09312762A
Patient No. US2020115069A1

GENERAL INFORMATION:

APPLICANT: MIA HOROWITZ ET AL.
TITLE OF INVENTION: EH DOMAIN CONTAINING GENES AND PROTEINS
NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:
ADDRESSEE: Mark M. Friedman c/o Anthony Castorina

STREET: 2001 Jefferson Davis Highway, Suite 207

| Result No. | Score | Query | Match Length | DB ID | Description |
|------------|-------|-------|--------------|-------|---|
| 1 | 34 | 89.5 | 615 | 10 | US-09-899-482-3 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 2 | 33 | 86.8 | 534 | 10 | US-09-312-762A-4 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 3 | 33 | 86.8 | 534 | 10 | US-09-312-762A-4 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 4 | 33 | 86.8 | 534 | 10 | US-09-312-762A-4 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 5 | 31 | 81.6 | 559 | 9 | US-09-284-320-21 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 6 | 31 | 81.6 | 559 | 9 | US-10-205-823-331 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 7 | 30 | 78.9 | 452 | 9 | US-10-184-832-5 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 8 | 30 | 78.9 | 452 | 9 | US-10-184-832-5 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 9 | 30 | 78.9 | 462 | 12 | US-10-042-411-14 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 10 | 30 | 78.9 | 462 | 12 | US-10-042-411-14 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 11 | 30 | 78.9 | 471 | 9 | US-09-223-070-21 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 12 | 30 | 78.9 | 471 | 9 | US-09-223-070-21 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 13 | 29 | 76.3 | 39 | 10 | US-09-910-071-2 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 14 | 29 | 76.3 | 254 | 9 | US-09-880-748-905 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 15 | 29 | 76.3 | 319 | 9 | US-10-106-698-4861 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 16 | 29 | 76.3 | 471 | 10 | US-09-815-243-12205 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 17 | 29 | 76.3 | 520 | 10 | US-09-815-243-12205 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 18 | 29 | 76.3 | 616 | 9 | US-10-260-877-120 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 19 | 29 | 76.3 | 616 | 9 | US-10-260-877-120 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 20 | 29 | 76.3 | 1659 | 9 | US-10-242-056-59 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 21 | 29 | 76.3 | 32 | 10 | US-10-080-941-2 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 22 | 29 | 73.7 | 60 | 9 | US-09-881-151-97 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 23 | 29 | 73.7 | 67 | 9 | US-10-073-961-243 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 24 | 29 | 73.7 | 67 | 10 | US-09-764-887-243 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 25 | 28 | 73.7 | 107 | 10 | US-09-893-777-194 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 26 | 28 | 73.7 | 107 | 10 | US-09-992-753-2 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 27 | 28 | 73.7 | 212 | 10 | US-09-864-761-46654 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 28 | 28 | 73.7 | 466 | 9 | US-09-986-480-316 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 29 | 28 | 73.7 | 317 | 10 | US-10-312-762A-9 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 30 | 28 | 73.7 | 317 | 10 | US-10-102-800-473 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 31 | 28 | 73.7 | 333 | 10 | US-09-567-761-12325 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 32 | 28 | 73.7 | 379 | 9 | US-09-986-480-180 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 33 | 28 | 73.7 | 392 | 9 | US-10-295-220-14 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 34 | 28 | 73.7 | 40 | 10 | US-09-815-242-1247 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 35 | 28 | 73.7 | 41 | 10 | US-09-815-242-1247 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29, Appli Sequence 5, Appli Sequence 14, Appli Sequence 21, Appli Sequence 16, Appli Sequence 2, Appli Sequence 43570, A Sequence 4, Appli Sequence 905, Appli Sequence 4861, Appli Sequence 5664, Appli Sequence 12205, A Sequence 120, Appli Sequence 19, Appli |
| 36 | 28 | 73.7 | 42 | 10 | US-10-242-056-51 Sequence 3, Appli Sequence 4, Appli Sequence 5, Appli Sequence 6, Appli Sequence 21, Appli Sequence 331, Appli Sequence 29 |

CITY: Arlington
 STATE: Virginia
 COUNTRY: United States of America
 ZIP: 22202
 COMPUTER READABLE FORM:
 COMPUTER: Twinhead* Slimbyte-990TX
 OPERATING SYSTEM: MS DOS version 6.2,
 OPERATING SYSTEM: Windows version 3.11
 SOFTWARE: Word for Windows version 2.0 converted to
 SOFTWARE: an ASCII file
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/312,762A
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 09/025,898
 FILING DATE: 20 FEB 1998
 ATTORNEY/AGENT INFORMATION:
 NAME: Friedman, Mark M.
 REFERENCE/DOCKET NUMBER: 33,883
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 972-3-5625553
 TELEFAX: 972-3-5625554
 TELEX:
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 534
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-09-312-762A-4

Query Match 86.8%; Score 33; DB 10; Length 534;
 Best Local Similarity 71.4%; Pred. No. 80;
 Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LPNLFGK 7
 Db 318 MPNVFGK 324

Query Match 86.8%; Score 33; DB 10; Length 534;
 Best Local Similarity 71.4%; Pred. No. 80;
 Matches 5; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

RESULT 3
 US-09-312-762A-5
 Sequence 5, Application US/09312762A
 ; PARENT NO. US20030110969A1
 ; GENERAL INFORMATION:
 ; APPLICANT: MIA HOROWITZ ET AL.
 ; TITLE OF INVENTION: EH DOMAIN CONTAINING GENES AND PROTEINS
 ; NUMBER OF SEQUENCES: 27
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
 ; STREET: 2001 Jefferson Davis Highway, Suite 207
 ; CITY: Arlington
 ; STATE: Virginia
 ; COUNTRY: United States of America
 ; ZIP: 22202
 COMPUTER READABLE FORM:
 MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
 COMPUTER: Twinhead* Slimbyte-990TX
 OPERATING SYSTEM: MS DOS version 6.2,
 SOFTWARE: Word for Windows version 2.0 converted to
 SOFTWARE: an ASCII file
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/312,762A
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 09/026,898
 FILING DATE: 20 FEB 1998
 ATTORNEY/AGENT INFORMATION:

RESULT 4
 US-09-533-029-60
 Sequence 60, Application US/09533029
 Publication No. US2003046723A1
 GENERAL INFORMATION:
 APPLICANT: Heard, Jacqueline
 APPLICANT: Broun, Pierre
 APPLICANT: Riechmann, Jose-Luis
 APPLICANT: Keddie, James
 APPLICANT: Pineda, Omaira
 APPLICANT: Adam, Luc
 APPLICANT: Omaha, Raymond
 APPLICANT: Zhang, James
 APPLICANT: Yu, Guo-Liang
 APPLICANT: Ratcliffe, Oliver
 APPLICANT: Pilgrim, Marsha
 APPLICANT: Jiang, Cai-Zhong
 APPLICANT: Reuber, Lynne
 TITLE OF INVENTION: DISEASE-INDUCED POLYNUCLEOTIDES
 FILE REFERENCE: MII-010
 CURRENT APPLICATION NUMBER: US/09/533,029
 CURRENT FILING DATE: 2000-03-22
 EARLIER APPLICATION NUMBER: 60/125,814
 EARLIER FILING DATE: 1999-03-23
 NUMBER OF SEQ ID NOS: 121
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 60
 LENGTH: 489
 TYPE: PRT
 ORGANISM: Arabidopsis thaliana
 FEATURE: OTHER INFORMATION: G1417
 US-09-533-029-60

RESULT 5
 US-09-284-320-21
 Sequence 21, Application US/09284320
 Publication No. US20030092175A1
 GENERAL INFORMATION:
 APPLICANT: Kato, Seishi et al.

; TITLE OF INVENTION: HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND DNAs
 ; TITLE OF INVENTION: ENCODING THESE PROTEINS
 ; FILE REFERENCE: GIN-6705CPUS
 ; CURRENT APPLICATION NUMBER: US/09/284,320
 ; CURRENT FILING DATE: 1999-06-21
 ; PRIORITY APPLICATION NUMBER: JP 8-301429
 ; PRIORITY FILING DATE: 1996-11-13
 ; PRIORITY FILING DATE: 1997-11-07
 ; NUMBER OF SEQ ID NOS: 91
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 21
 ; LENGTH: 559
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-284-320-21

Query Match 81.6%; Score 31; DB 9; Length 559;
 Best Local Similarity 83.3%; Pred. No. 2.2e+02; Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LPNLFG 6
 Db 156 LPNMFG 161

RESULT 6

US-10-205-823-331
 ; Sequence 331, Application US/10205823
 ; GENERAL INFORMATION:
 ; Publication No. US20030108963A1
 ; APPLICANT: Schlegel, Robert
 ; APPLICANT: Mohahan, John E.
 ; APPLICANT: Erdige, Wilson O.
 ; APPLICANT: Gannavarapu, Manjula
 ; APPLICANT: Gorbatcheva, Bella
 ; APPLICANT: Hoersch, Sebastian
 ; APPLICANT: Kanatkar, Shubhangi
 ; APPLICANT: Wensey, Angela M.
 ; APPLICANT: Giatt, Karen
 ; APPLICANT: Anderson, Dustin
 ; APPLICANT: Anderson, Dustin
 ; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
 ; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
 ; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
 ; CURRENT APPLICATION NUMBER: US/10/205, 823
 ; CURRENT FILING DATE: 2002-07-25
 ; PRIORITY APPLICATION NUMBER: 60/307, 982
 ; PRIORITY FILING DATE: 2001-07-25
 ; PRIORITY APPLICATION NUMBER: 60/314, 356
 ; PRIORITY FILING DATE: 2001-08-22
 ; PRIORITY APPLICATION NUMBER: 60/325, 020
 ; PRIORITY FILING DATE: 2001-09-25
 ; PRIORITY APPLICATION NUMBER: 60/341, 746
 ; PRIORITY FILING DATE: 2001-12-12
 ; PRIORITY APPLICATION NUMBER: 60/362, 158
 ; PRIORITY FILING DATE: 2002-03-05
 ; NUMBER OF SEQ ID NOS: 455
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 331
 ; LENGTH: 559
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-305-823-331

Query Match 81.6%; Score 31; DB 9; Length 559;
 Best Local Similarity 83.3%; Pred. No. 2.2e+02; Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LPNLFG 6
 Db 156 LPNMFG 161

RESULT 7
 US-10-153-668-29
 ; Sequence 29, Application US/10153668
 ; Publication No. US20030092616A1
 ; GENERAL INFORMATION:
 ; APPLICANT: HONDA, Goichi
 ; APPLICANT: MATSUDA, Akio
 ; APPLICANT: MURAMATSU, Shuji
 ; APPLICANT: ISHIZAWA, Kenya
 ; TITLE OF INVENTION: STAT6 Activating Gene
 ; FILE REFERENCE: 1254-0207P
 ; CURRENT APPLICATION NUMBER: US/10/153, 668
 ; CURRENT FILING DATE: 2002-05-24
 ; PRIORITY APPLICATION NUMBER: US 60/328, 403
 ; PRIORITY FILING DATE: 2001-10-12
 ; PRIORITY APPLICATION NUMBER: JP 2001-157043
 ; PRIORITY FILING DATE: 2001-05-25
 ; PRIORITY APPLICATION NUMBER: JP 2001-260681
 ; PRIORITY FILING DATE: 2001-08-30
 ; PRIORITY APPLICATION NUMBER: JP 2001-313175
 ; PRIORITY FILING DATE: 2001-10-10
 ; NUMBER OF SEQ ID NOS: 488
 ; SEQ ID NO 29
 ; LENGTH: 266
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-153-668-29

Query Match 78.9%; Score 30; DB 9; Length 266;
 Best Local Similarity 83.3%; Pred. No. 1.6e+02; Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LPNLFG 6
 Db 38 LPNLFG 43

RESULT 8

US-10-184-832-5
 ; Sequence 5, Application US/10184832
 ; Publication No. US20030022857A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Xu et al.
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
 ; TITLE OF INVENTION: TREATMENT OF BODY WEIGHT DISORDERS, INCLUDING OBESITY
 ; FILE REFERENCE: MP12001-058P1NM
 ; CURRENT APPLICATION NUMBER: US/10/184, 832
 ; CURRENT FILING DATE: 2002-06-28
 ; PRIORITY APPLICATION NUMBER: 60/303, 250
 ; PRIORITY FILING DATE: 2001-07-05
 ; NUMBER OF SEQ ID NOS: 6
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 5
 ; LENGTH: 452
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 ; US-10-184-832-5

Query Match 78.9%; Score 30; DB 9; Length 452;
 Best Local Similarity 85.7%; Pred. No. 2.8e+02; Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LPNLFGK 7
 Db 308 LPNLFGK 314

RESULT 9
 US-10-042-417-14
 ; Sequence 14, Application US/10042417
 ; Patent No. US20000123082A1
 ; GENERAL INFORMATION:
 ; APPLECT: Pagano, M
 ; TITLE OF INVENTION: METHODS TO IDENTIFY COMPOUNDS USEFUL FOR THE TREATMENT OF
 ; TITLE OF INVENTION: PROLIFERATIVE AND DIFFERENTIATIVE DISORDERS
 ; CURRENT APPLICATION NUMBER: US10/142,417
 ; CURRENT FILING DATE: 2000-01-07
 ; PRIOR APPLICATION NUMBER: 60/260,179
 ; PRIOR FILING DATE: 2001-01-05
 ; NUMBER OF SEQ ID NOS: 89
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 14
 ; LENGTH: 482
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-042-417-14

Query Match 78.9%; Score 30; DB 12; Length 482;
 Best Local Similarity 83.3%; Pred. No. 3e-02; Mismatches 0; Indels 0; Gaps 0;
 Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LPNLFG 6
 Db 286 LPNLFG 291

RESULT 10
 US-09-804-551B-16
 ; Sequence 16, Application US/09804551B
 ; Patent No. US2000056151A1
 ; GENERAL INFORMATION:
 ; APPLECT: Bayer Aktiengesellschaft
 ; TITLE OF INVENTION: Receptors for peptides
 ; FILE REFERENCE: Le A 34 394
 ; CURRENT APPLICATION NUMBER: US/09/804,551B
 ; CURRENT FILING DATE: 2001-03-12
 ; PRIOR APPLICATION NUMBER: DE 100 13 618.4
 ; PRIOR FILING DATE: 2000-03-18
 ; NUMBER OF SEQ ID NOS: 92
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 16
 ; LENGTH: 666
 ; TYPE: PRT
 ; ORGANISM: Drosophila melanogaster
 ; US-09-004-551B-16

Query Match 78.9%; Score 30; DB 10; Length 666;
 Best Local Similarity 71.4%; Pred. No. 4.1e-02; Mismatches 1; Indels 0; Gaps 0;
 Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LPNLFGK 7
 Db 80 MPNLFGK 86

RESULT 11
 US-10-223-070-21
 ; Sequence 21, Application US/10223070
 ; Publication No. US20030109045A1
 ; GENERAL INFORMATION:
 ; APPLECT: Nelson, Richard S.
 ; TITLE OF INVENTION: RNA SILENCING SUPPRESSION
 ; FILE REFERENCE: NBL:006US
 ; CURRENT APPLICATION NUMBER: US/10/223,070
 ; CURRENT FILING DATE: 2002-08-16
 ; PRIOR APPLICATION NUMBER: 60/313,185
 ; PRIOR FILING DATE: 2002-08-17

Query Match 78.9%; Score 30; DB 9; Length 1718;
 Best Local Similarity 85.7%; Pred. No. 1.1e+03; Mismatches 1; Indels 0; Gaps 0;
 Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LPNLFGK 7
 Db 372 LENLFGK 378

RESULT 12
 US-09-910-071-2
 ; Sequence 2, Application US/09910071
 ; Patent No. US20020116146A1
 ; GENERAL INFORMATION:
 ; APPLECT: Tomikawa, Mayumi
 ; APPLECT: Aikawa, Seiichi
 ; TITLE OF INVENTION: Method and Apparatus for Extracting and Evaluating Mutually Similar Portions in One-Dimensional Sequences in Molecules and/or Three
 ; TITLE OF INVENTION: Structures of Molecules
 ; FILE REFERENCE: 522.921D2
 ; CURRENT APPLICATION NUMBER: US/09/910,071
 ; CURRENT FILING DATE: 2001-07-23
 ; PRIOR APPLICATION NUMBER: US 08/014,867
 ; PRIOR FILING DATE: 1993-02-08
 ; NUMBER OF SEQ ID NOS: 20
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 2
 ; LENGTH: 39
 ; TYPE: PRT
 ; ORGANISM: bacterium

Query Match 78.9%; Score 29; DB 10; Length 39;
 Best Local Similarity 100.0%; Pred. No. 35; Mismatches 0; Indels 0; Gaps 0;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 PNLFPG 6
 Db 33 PNLFPG 37

RESULT 13
 US-09-864-761-43570
 ; Sequence 43570, Application US/09864761
 ; Patent No. US20020648763A1
 ; GENERAL INFORMATION:
 ; APPLECT: Penn, Sharron G.
 ; APPLECT: Rank, David R.
 ; APPLECT: Hanzel, David K.
 ; APPLECT: Chen, Wensheng
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 ; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
 ; FILE REFERENCE: Asomicc-X-1
 ; CURRENT APPLICATION NUMBER: US/09/864,761
 ; CURRENT FILING DATE: 2001-05-23
 ; PRIOR APPLICATION NUMBER: US 60/180,312
 ; PRIOR FILING DATE: 2000-02-04
 ; PRIOR APPLICATION NUMBER: US 60/207,456
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 09/653,366
 ; PRIOR FILING DATE: 2000-08-03
 ; PRIOR APPLICATION NUMBER: GB 24263,6
 ; PRIOR FILING DATE: 2000-10-04
 ; PRIOR APPLICATION NUMBER: US 60/236,359

PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: PCT/US01/00666
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00667
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00664
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00669
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00665
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00662
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00661
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00670
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: US 60/2234,687
 PRIOR FILING DATE: 2000-09-21
 PRIOR APPLICATION NUMBER: US 09/6108,408
 PRIOR FILING DATE: 2000-06-30
 PRIOR APPLICATION NUMBER: US 09/774,203
 PRIOR FILING DATE: 2001-01-29
 NUMBER OF SEQ ID NOS: 49117
 SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
 SEQ ID NO 43570
 LENGTH: 57
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: MAP TO AC002288.1
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.1
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.2
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.93
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.9
 OTHER INFORMATION: EST HUMAN HIT: AA071547.1, EVALUE 3.00E-24
 OTHER INFORMATION: SWISSPROT HIT: P00008, EVALUE 7.00E-26
 ; US-09-864-761-43570

Query Match
 Best Local Similarity 76.3%; Score 29; DB 10; Length 57;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

| Qy | 2 | PNLFG 6 |
|----|----|----------|
| Db | 27 | PNLFG 31 |

RESULT 14

US-09-880-748-905

; Sequence 905, Application US/09880748
 ; Publication No. US20030019937A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ruben et al.
 ; TITLE OF INVENTION: Antibodies that Immunospecifically Bind Blys
 ; FILE REFERENCE: PCT/23
 ; CURRENT APPLICATION NUMBER: US/09/880,748
 ; CURRENT FILING DATE: 2001-06-15
 ; PRIOR APPLICATION NUMBER: 60/212,210
 ; PRIOR FILING DATE: 2000-06-15
 ; PRIOR APPLICATION NUMBER: 60/240,816
 ; PRIOR FILING DATE: 2000-10-17
 ; PRIOR APPLICATION NUMBER: 60/276,248
 ; PRIOR FILING DATE: 2001-03-16
 ; PRIOR APPLICATION NUMBER: 60/277,379
 ; PRIOR FILING DATE: 2001-03-21
 ; PRIOR APPLICATION NUMBER: 60/293,499

PRIOR FILING DATE: 2001-05-25
 NUMBER OF SEQ ID NOS: 3239
 SOFTWARE: Patentin Ver. 2.0
 SEQ ID NO 905
 LENGTH: 254
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-880-748-905

Query Match 76.3%; Score 29; DB 9; Length 254;
 Best Local Similarity 71.4%; Pred. No. 2.5e+02;
 Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 LPNLFGK 7
 Db 240 LPNLFGQ 246

RESULT 15

US-10-106-698-4861

; Sequence 4861, Application US/10106698
 ; Publication No. US20030109690A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ruben et al.
 ; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptid
 ; FILE REFERENCE: PAO05P1
 ; CURRENT APPLICATION NUMBER: US/10/106,698
 ; CURRENT FILING DATE: 2002-03-27
 ; PRIOR APPLICATION NUMBER: PCT/US00/28524
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: US 60/157,137
 ; PRIOR FILING DATE: 1999-09-29
 ; NUMBER OF SEQ ID NOS: 8564
 ; SOFTWARE: Patentin Ver. 3.0
 ; PRIOR APPLICATION NUMBER: US 60/163,280
 ; SEQ ID NO 4861
 ; LENGTH: 319
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-10-106-698-4861

Query Match 76.3%; Score 29; DB 9; Length 319;
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 2 PNLFG 6
 Db 64 PNLFG 68

Search completed: July 16, 2003, 06:57:40
 Job time : 6.9162 secs

US-09-462-844-3

Query Match 89.5%; Score 34; DB 4; Length 615;
 Best Local Similarity 89.5%; Pred. No. 32; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFKG 7
 Db 25 LPNLFGE 31

RESULT 3

US-08-484-101B-3B

Sequence 38, Application US/08484101B

Patent No. 582868

GENERAL INFORMATION:

APPLICANT: California Institute of Technology

TITLE OF INVENTION: PLANTS HAVING MODIFIED RESPONSE TO

TITLE OF INVENTION: PLANTS HAVING MODIFIED RESPONSE TO

NUMBER OF SEQUENCES: 50

CORRESPONDENCE ADDRESS:

ADDRESSEE: Richard F. Trecartin

STREET: 3400 Embarcadero Center, Suite 3400

CITY: San Francisco

STATE: California

COUNTRY: USA

ZIP: 94111

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/484,101B

FILING DATE: 07-JUN-1995

CLASSIFICATION: 800

PRIORITY APPLICATION DATA:

FILING DATE: 01-JUL-1993

CLASSIFICATION: 800

ATTORNEY/AGENT INFORMATION:

NAME: Trecartin, Richard F.

REGISTRATION NUMBER: 31,801

REFERENCE/DOCKET NUMBER: A-57515-2/RFT

TELECOMMUNICATION INFORMATION:

TELEPHONE: (415) 781-1989

TELEFAX: (415) 398-3249

INFORMATION FOR SEQ ID NO: 38:

SEQUENCE CHARACTERISTICS:

LENGTH: 615 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-484-101B-3B

Query Match 78.9%; Score 30; DB 2; Length 615;
 Best Local Similarity 71.4%; Pred. No. 2.0e+02; Mismatches 1; Indels 0; Gaps 0;
 Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 LPNLFKG 7
 Db 529 IPNLFSK 535

RESULT 4

US-08-714-524D-3B

Sequence 38, Application US/0871454D

Patent No. 6294716

GENERAL INFORMATION:

APPLICANT: Meyerowitz, Elliott M

APPLICANT: Chang, Caren

APPLICANT: Bleeker, Anthony B

TITLE OF INVENTION: PLANTS HAVING MODIFIED RESPONSE TO ETHYLENE

FILE REFERENCE: a-5715-4

CURRENT APPLICATION NUMBER: US/08/714,524D

CURRENT FILING DATE: 1995-09-16

NUMBER OF SEQ ID NOS: 56

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 38

LENGTH: 615

TYPE: PRT

ORGANISM: Lycopersicon esculentum

US-08-714-524D-3B

Query Match 78.9%; Score 30; DB 4; Length 615;
 Best Local Similarity 71.4%; Pred. No. 2.2e-02; Mismatches 1; Indels 0; Gaps 0;
 Matches 5; Conservative 1; Mismatches 1; Indels 0; Gaps 0;QY 1 LPNLFKG 7
 Db 529 IPNLFSK 535

RESULT 5

US-08-701-240-2

Sequence 2, Application US/08701240

Patent No. 5512160

GENERAL INFORMATION:

APPLICANT: Wong, Albert J.

APPLICANT: Holgado-Madruga, Maria

TITLE OF INVENTION: GABI, A GRB2 BINDING PROTEIN, AND

TITLE OF INVENTION: COMPOSITIONS FOR MAKING AND METHODS OF USING THE SAME

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 5912160ris

STREET: One Liberty Place, 46th Floor

CITY: Philadelphia

STATE: Pennsylvania

COUNTRY: USA

ZIP: 19103

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/701,240

FILING DATE:

CLASSIFICATION:

PRIORITY APPLICATION DATA:

APPLICATION NUMBER: 60/002,641

FILING DATE: US 60/002,641

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: DeLuca, Mark

REGISTRATION NUMBER: 33,229

REFERENCE/DOCKET NUMBER: TGU-2032

TELECOMMUNICATION INFORMATION:

TELEPHONE: 215-568-3100

TELEFAX: 215-568-3439

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 694 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-701-240-2

Query Match 76.3%; Score 29; DB 2; Length 694;
 Best Local Similarity 100.0%; Pred. No. 4e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 6

US-09-138-236-2

Sequence 2, Application US/09138236

Patent No. 6133428

GENERAL INFORMATION:

APPLICANT: Wong, Albert J.

APPLICANT: Holgado-Madriga, Maria

TITLE OF INVENTION: COMPOSITIONS FOR MAKING AND METHODS OF USING THE SAME

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6133428ris

STREET: One Liberty Place, 46th Floor

CITY: Philadelphia

STATE: Pennsylvania

COUNTRY: USA

ZIP: 19103

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/138,236

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/701,240

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: DeLuca, Mark

REGISTRATION NUMBER: 33,229

TELECOMMUNICATION INFORMATION:

TELEPHONE: 215-568-3100

TELEFAX: 215-568-3139

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 694 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-138-236-2

RESULT 7

Query Match 76.3%; Score 29; DB 4; Length 694;

Best Local Similarity 100.0%; Pred. No. 4e+02;

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 PNLFG 6

Db 601 PNLFG 605

RESULT 7

US-09-196-520-10

Sequence 10, Application US/09196520

Patent No. 6204039

GENERAL INFORMATION:

APPLICANT: Falco, Carl S.

APPLICANT: Allen, Stephen M.

TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs

FILE REFERENCE: BB-1391

CURRENT APPLICATION NUMBER: US/09/196,520

CURRENT FILING DATE: 1998-11-19

EARLIER APPLICATION NUMBER: 60/067,388

EARLIER FILING DATE: December 2, 1997

NUMBER OF SEQ ID NOS: 10

SEQ ID NO 4

LENGTH: 352

TYPE: PRT

ORGANISM: Oryza sativa

FEATURE:

NAME/KEY: UNSURE

LOCATION: (58)

US-09-196-520-10

Query Match 73.7%; Score 28; DB 4; Length 357;

Best Local Similarity 66.7%; Pred. No. 3.1e+02;

Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFG 6

Db 256 MPNLFG 261

RESULT 8

US-09-196-520-6

Sequence 6, Application US/09196520

Patent No. 6204039

GENERAL INFORMATION:

APPLICANT: Falco, Carl S.

APPLICANT: Allen, Stephen M.

TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs

FILE REFERENCE: BB-1291

CURRENT APPLICATION NUMBER: US/09/196,520

CURRENT FILING DATE: 1998-11-19

EARLIER APPLICATION NUMBER: 60/067,388

EARLIER FILING DATE: December 2, 1997

NUMBER OF SEQ ID NOS: 10

SEQ ID NO 6

LENGTH: 361

TYPE: PRT

ORGANISM: Glycine max

FEATURE:

NAME/KEY: UNSURE

LOCATION: (68)

US-09-196-520-6

Query Match 73.7%; Score 28; DB 4; Length 361;

Best Local Similarity 66.7%; Pred. No. 3.2e+02;

Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 1 LPNLFG 6

Db 250 MPNLFG 255

RESULT 9

US-09-196-520-4

Sequence 4, Application US/09196520

Patent No. 6204039

GENERAL INFORMATION:

APPLICANT: Falco, Carl S.

APPLICANT: Allen, Stephen M.

TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs

FILE REFERENCE: BB-1391

CURRENT APPLICATION NUMBER: US/09/196,520

CURRENT FILING DATE: 1998-11-19

EARLIER APPLICATION NUMBER: 60/067,388

EARLIER FILING DATE: December 2, 1997

NUMBER OF SEQ ID NOS: 10

SEQ ID NO 4

LENGTH: 352

TYPE: PRT

ORGANISM: Oryza sativa

FEATURE:

NAME/KEY: UNSURE

LOCATION: (58)

US-09-196-520-4

Query Match 73.7%; Score 28; DB 4; Length 362;
 Best Local Similarity 66.7%; Pred. No. 3.2e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LPNLFG 6 :|||: Db 251 MPNLYG 256

RESULT 10
 US-09-196-520-8
 ; Sequence 8, Application US/09196520
 ; GENERAL INFORMATION:
 ; PATENT NO. 6204039
 ; APPLICANT: Falco, Carl S.
 ; APPLICANT: Allen, Stephen M.
 ; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
 ; FILE REFERENCE: BB-1291
 ; CURRENT APPLICATION NUMBER: US/09/196,520
 ; CURRENT FILING DATE: 1998-11-19
 ; EARLIER APPLICATION NUMBER: 60/067,388
 ; EARLIER FILING DATE: December 2, 1997
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 8
 ; LENGTH: 362
 ; TYPE: PRT
 ; ORGANISM: Triticum sp.
 ; US-09-196-520-8

Query Match 73.7%; Score 28; DB 4; Length 362;
 Best Local Similarity 66.7%; Pred. No. 3.2e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LPNLFG 6 :|||: Db 251 MPNLYG 256

RESULT 11
 US-09-196-520-9
 ; Sequence 9, Application US/09196520
 ; GENERAL INFORMATION:
 ; PATENT NO. 6204039
 ; APPLICANT: Falco, Carl S.
 ; APPLICANT: Allen, Stephen M.
 ; TITLE OF INVENTION: Plant Isocitrate Dehydrogenase Homologs
 ; FILE REFERENCE: BB-1291
 ; CURRENT APPLICATION NUMBER: US/09/196,520
 ; CURRENT FILING DATE: 1998-11-19
 ; EARLIER APPLICATION NUMBER: 60/067,388
 ; EARLIER FILING DATE: December 2, 1997
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 9
 ; LENGTH: 364
 ; TYPE: PRT
 ; ORGANISM: Nicotiana tabacum
 ; US-09-196-520-9

Query Match 73.7%; Score 28; DB 4; Length 364;
 Best Local Similarity 66.7%; Pred. No. 3.2e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 4; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LPNLFG 6 :|||: Db 253 MPNLYG 258

RESULT 12
 US-09-196-520-2
 ; Sequence 2, Application US/09196520
 ; PATENT NO. 6204039

RESULT 13
 US-09-984-171-4
 ; Sequence 4, Application US/08984171
 ; GENERAL INFORMATION:
 ; PATENT NO. 5952177
 ; APPLICANT: Bandman, Olga
 ; APPLICANT: Lal, Preeti
 ; APPLICANT: Corley, Neil C.
 ; APPLICANT: Au-Young, Janice
 ; TITLE OF INVENTION: HUMAN CYTOSOLIC ISOCITRATE
 ; TITLE OF INVENTION: DEHYDROGENASE
 ; NUMBER OF SEQUENCES: 4
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Incyte Pharmaceuticals, Inc.
 ; STREET: 3174 Porter Dr.
 ; STATE: CA
 ; CITY: Palo Alto
 ; COUNTRY: USA
 ; ZIP: 94304
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; OPERATING SYSTEM: DOS
 ; COMPUTER: IBM Compatible
 ; SOFTWARE: FastSEQ for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/984,171
 ; FILING DATE: Filed Herewith
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Billings, Lucy J.
 ; REFERENCE/DOCKET NUMBER: 36 749
 ; REGISTRATION NUMBER: PF-0434 US
 ; TELECOMUNICATION INFORMATION:
 ; TELEPHONE: 650-855-0555
 ; TELEX:
 ; INFORMATION FOR SEQ ID NO: 4:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 366 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; IMMEDIATE SOURCE:
 ; LIBRARY: Genbank
 ; CLONE: 706839

US-09-984-171-4

Query Match 73.7%; Score 28; DB 2; Length 366;
 Best Local Similarity 66.7%; Pred. No. 3.2e+02; 2;
 Matches 4; Conservative 2; Mismatches 0; Indels 0;
 Gaps 0;
 Qy 1 LPNLFG 6
 Db 251 MPNLYG 256

RESULT 14

US-09-323-872A-46
 Sequence 46 Application US/09323872A
 Patent No. 6395539
 GENERAL INFORMATION:

APPLICANT: Coschignano, Peter
 TITLE OF INVENTION: Compositions and Methods for Bioremediation
 FILE REFERENCE: OHU-03640
 CURRENT APPLICATION NUMBER: US/09/323,872A
 CURRENT FILING DATE: 2001-06-15
 PRIOR APPLICATION NUMBER: 09/072,433
 NUMBER OF SEQ ID NOS: 58
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO 46
 LENGTH: 581
 TYPE: PRT
 ORGANISM: Thauera aromatica
 US-09-323-872A-46

Query Match 73.7%; Score 28; DB 4; Length 581;
 Best Local Similarity 71.4%; Pred. No. 5.3e+02; 1;
 Matches 5; Conservative 1; Mismatches 1; Indels 0;
 Gaps 0;

Qy 1 LPNLFGK 7
 Db 561 LPKLFGE 567

RESULT 15

US-09-347-878-5
 Sequence 5, Application US/09347878C
 Patent No. 6376210
 GENERAL INFORMATION:
 APPLICANT: Yuan, Chong
 TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ASSAYING ANALYTES
 FILE REFERENCE: 25885-1651
 CURRENT APPLICATION NUMBER: US/09/347,878C
 CURRENT FILING DATE: 1999-07-06
 NUMBER OF SEQ ID NOS: 75
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 5
 LENGTH: 1265
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-347-878-5

Query Match 73.7%; Score 28; DB 4; Length 1265;
 Best Local Similarity 83.3%; Pred. No. 1.2e+03; 5;
 Matches 5; Conservative 0; Mismatches 1; Indels 0;
 Gaps 0;
 Qy 1 LPNLFG 6
 Db 290 LPNLFGE 295

Search completed: July 16, 2003, 06:59:02
 Job time : 3.2904 secs

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GenCore version 5.1.6

Run on: July 16, 2003, 06:51:00 ; Search time: 8.88636 Seconds
(without alignments)

120.278 Million cell updates/sec

Sequence: US-09-308-140-2

Sequence: 1 IPEEISALK 9

Sequence: 42

Sequence: 451899 seqs, 118759770 residues

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Published Applications Ma:*

- 1: /cgn2_6/ptodata/2/pupaa/US07_NEW_PUB.pep:*
- 2: /cgn2_6/ptodata/2/pupaa/PCT_NW_PUB.pep:*
- 3: /cgn2_6/ptodata/2/pupaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/2/pupaa/US05_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/2/pupaa/US07_PUBCOMB.pep:*
- 6: /cgn2_6/ptodata/2/pupaa/US08_NEW_PUB.pep:*
- 7: /cgn2_6/ptodata/2/pupaa/US09_PUBCOMB.pep:*
- 8: /cgn2_6/ptodata/2/pupaa/US08_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/2/pupaa/US09_NEW_PUB.pep:*
- 10: /cgn2_6/ptodata/2/pupaa/US05_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/2/pupaa/US10_NEW_PUB.pep:*
- 12: /cgn2_6/ptodata/2/pupaa/US10_PUBCOMB.pep:*
- 13: /cgn2_6/ptodata/2/pupaa/US60_NEW_PUB.pep:*
- 14: /cgn2_6/ptodata/2/pupaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|---------------------|
| 1 | 34 | 81.0 | 164 | 9 | US-09-866-050A-385 |
| 2 | 33 | 78.6 | 198 | 9 | US-09-738-626-5310 |
| 3 | 33 | 78.6 | 198 | 9 | US-10-10464A-660 |
| 4 | 33 | 78.6 | 463 | 10 | US-09-815-242-13918 |
| 5 | 33 | 78.6 | 920 | 10 | US-09-925-301-1396 |
| 6 | 32 | 76.2 | 156 | 9 | US-10-10464A-509 |
| 7 | 32 | 76.2 | 1095 | 9 | US-10-128-714-8305 |
| 8 | 31 | 73.8 | 147 | 9 | US-10-153-668-364 |
| 9 | 31 | 73.8 | 298 | 10 | US-09-925-301-1224 |
| 10 | 31 | 73.8 | 541 | 9 | US-10-234-432-37 |
| 11 | 31 | 73.8 | 601 | 9 | US-09-934-455-434 |
| 12 | 31 | 73.8 | 653 | 10 | US-09-979-091-02 |
| 13 | 31 | 73.8 | 654 | 9 | US-09-919-039-260 |
| 14 | 31 | 73.8 | 654 | 10 | US-09-919-17254 |
| 15 | 31 | 73.8 | 655 | 9 | US-10-235-113-36 |
| 16 | 31 | 73.8 | 662 | 9 | US-10-234-432-75 |
| 17 | 31 | 73.8 | 678 | 9 | US-10-234-432-38 |
| 18 | 31 | 73.8 | 680 | 9 | US-10-153-668-244 |

ALIGNMENTS

| SEQ ID NO | LENGTH | TYPE | ORGANISM |
|--------------------|--------|------|----------|
| US-09-866-050A-385 | 164 | PRT | Mouse |

RESULT 1

US-09-866-050A-385

Sequence 385, Application US/09866050A

Publication No. US/0030040471A1

GENERAL INFORMATION:

APPLICANT: Watson, James D.

APPLICANT: Strachan, Lorna

APPLICANT: Sleeman, Matthew

APPLICANT: Onrust, René

APPLICANT: Murison, James G.

APPLICANT: Kumbla, Krishanand D.

TITLE OF INVENTION: Compositions Isolated From Skin Cells

FILE REFERENCE: 11000.10114U

CURRENT APPLICATION NUMBER: US/09-866-050A

CURRENT FILING DATE: 2001-05-24

NUMBER OF SEQ ID NOS: 725

SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 385

LENGTH: 164

TYPE: PRT

ORGANISM: Mouse

US-09-866-050A-385

Query Match 81.0%; Score 34; DB 9; Length 164

Best Local Similarity 66.7%; Pred. No. 30; Matches 6; Conservativeness 3; Mismatches 0; Inconsistencies 0

QY ||||||| IPEEISALK 9

Db 142 IPEEISALK 150

RESULT 2

US-09-738-626-5310

Sequence 5310, Application US/09738626

Publication No. US2003019705A1

GENERAL INFORMATION:

APPLICANT: NAKAGAWA, SATOSHI

APPLICANT: MIZOGUCHI, HIROSHI

APPLICANT: ANDO, SEIKO

APPLICANT: HAYASHI, MIKIRO

APPLICANT: OCHIALI, KEIKO
 APPLICANT: YOKOI, HARUHiko
 APPLICANT: TATEISHI, NAKO
 APPLICANT: SENOH, AKIHIRO
 APPLICANT: IKEDA, MASATO
 APPLICANT: OZAKI, AKIO
 TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
 FILE REFERENCE: 249-125
 CURRENT APPLICATION NUMBER: US/09/738,626
 CURRENT FILING DATE: 2000-12-18
 PRIOR APPLICATION NUMBER: JP 99/377484
 PRIOR FILING DATE: 1999-12-16
 PRIOR APPLICATION NUMBER: JP 00/159162
 PRIOR FILING DATE: 2000-04-07
 PRIOR APPLICATION NUMBER: JP 00/280988
 PRIOR FILING DATE: 2000-08-03
 NUMBER OF SEQ ID NOS: 7059
 SOFTWARE: PatentIn ver. 3.0
 SEQ ID NO 5310
 LENGTH: 198
 TYPE: PRT
 ORGANISM: Corynebacterium glutamicum
 US-09-738-626-5310

RESULT 3

Query Match 78.6%; Score 33; DB 9; Length 198;
 Best Local Similarity 55.6%; Pred. No. 59; Mismatches 4; Indels 0; Gaps 0;
 Matches 5; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

Qy 1 IPEEVALK 9
 Db 112 LPDEVSLR 120

US-10-101-464A-660

Sequence 660, Application US/10101464A
 Publication No. US2003046726A1

GENERAL INFORMATION:

APPLICANT: Straubala, Timothy
 APPLICANT: Nieuweltuinen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells
 TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000_1020c2
 CURRENT APPLICATION NUMBER: US/10/101,464A
 CURRENT FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 660
 LENGTH: 381
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-10-101-464A-660

Query Match 78.6%; Score 33; DB 9; Length 381;
 Best Local Similarity 77.8%; Pred. No. 1.3e+02; Mismatches 2; Indels 0; Gaps 0;
 Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 IPEEVALK 9
 Db 15 IPEEVALK 23

RESULT 4

Query Match 78.6%; Score 33; DB 10; Length 920;
 Best Local Similarity 75.0%; Pred. No. 3.5e+02; Mismatches 6; Indels 0; Gaps 0;
 Matches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

SEQ ID NO 1396
 LENGTH: 920
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-925 301-1396

Query Match 78.6%; Score 33; DB 10; Length 920;
 Best Local Similarity 75.0%; Pred. No. 3.5e+02; Mismatches 6; Indels 0; Gaps 0;

SEQ ID NO 1396
 LENGTH: 920
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-925 301-1396

QY 1 IPEELISAL 8
 Db :|||:|||
 ; Sequence 509 Application US/10101464A
 ; Publication No. US20030046728A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Nieuwennhuisen, Nicolaas
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells
 ; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 ; FILE REFERENCE: 11000-10020C2
 ; CURRENT APPLICATION NUMBER: US/10/101,464A
 ; CURRENT FILING DATE: 2002-03-18
 ; PRIOR APPLICATION NUMBER: 09/704,302
 ; PRIOR FILING DATE: 2000-11-01
 ; PRIOR APPLICATION NUMBER: 09/228,986
 ; PRIOR FILING DATE: 1999-01-12
 ; PRIOR APPLICATION NUMBER: 60/162,856
 ; PRIOR FILING DATE: 1999-11-01
 ; PRIOR APPLICATION NUMBER: PCT/US00/00724
 ; PRIOR FILING DATE: 2000-01-11
 ; NUMBER OF SEQ ID NOS: 989
 ; SOFTWARE: FastSeqQ for Windows Version 4.0
 ; SEQ ID NO: 509
 ; LENGTH: 156
 ; TYPE: PRT
 ; ORGANISM: Eucalyptus grandis
 ; US-10-101-464A-509

RESULT 7
 Query Match 75.2%; Score 32; DB 9; Length 156;
 Best Local Similarity 65.7%; Pred. No. 71; Mismatches 2; Indels 1; Gaps 0; Gaps 0;
 Matches 6; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 IPEELISALK 9
 Db :|||:|||
 ; 73 IPEELISCK 81

RESULT 7
 Sequence 8305, Application US/10128714
 ; Publication No. US20030119013A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jiang, Bo
 ; APPLICANT: Hu, Wengi
 ; APPLICANT: Tishkoff, Daniel
 ; APPLICANT: Zamudio, Carlos
 ; APPLICANT: Eroshkin, Alexey M
 ; APPLICANT: Leneuve, Sébastien M
 ; TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and
 ; TITLE OF INVENTION: Methods of Use
 ; FILE REFERENCE: 10182-018-999
 ; CURRENT APPLICATION NUMBER: US/10/128,714
 ; CURRENT FILING DATE: 2002-04-23
 ; PRIOR APPLICATION NUMBER: US 60/285,697
 ; PRIOR FILING DATE: 2001-04-23
 ; PRIOR APPLICATION NUMBER: US 60/287,066
 ; PRIOR FILING DATE: 2001-04-27
 ; PRIOR APPLICATION NUMBER: US 60/295,890
 ; PRIOR FILING DATE: 2001-05-05
 ; PRIOR APPLICATION NUMBER: US 60/303,899
 ; PRIOR FILING DATE: 2001-07-09
 ; PRIOR APPLICATION NUMBER: US 60/316,362
 ; PRIOR FILING DATE: 2001-08-31
 ; NUMBER OF SEQ ID NOS: 8603
 ; SOFTWARE: Patentin version 3.1
 ; SEQ ID NO: 8305
 ; LENGTH: 1095

RESULT 7
 Sequence 8305, Application US/10128714
 ; Publication No. US/10128714
 ; GENERAL INFORMATION:
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells
 ; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 ; CURRENT APPLICATION NUMBER: US/10/101,464A
 ; CURRENT FILING DATE: 2002-03-18
 ; PRIOR APPLICATION NUMBER: 09/704,302
 ; PRIOR FILING DATE: 2000-11-01
 ; PRIOR APPLICATION NUMBER: 09/228,986
 ; PRIOR FILING DATE: 1999-01-12
 ; PRIOR APPLICATION NUMBER: 60/162,856
 ; PRIOR FILING DATE: 1999-11-01
 ; PRIOR APPLICATION NUMBER: PCT/US00/00724
 ; PRIOR FILING DATE: 2000-01-11
 ; NUMBER OF SEQ ID NOS: 989
 ; SOFTWARE: FastSeqQ for Windows Version 4.0
 ; SEQ ID NO: 509
 ; LENGTH: 156
 ; TYPE: PRT
 ; ORGANISM: Eucalyptus grandis
 ; US-10-101-464A-509

RESULT 8
 Sequence 364, Application US/10153668
 ; Publication No. US20030092616A1
 ; GENERAL INFORMATION:
 ; APPLICANT: HONDA, Goichi
 ; APPLICANT: MATSUDA, AKIO
 ; APPLICANT: MURAMATSU, Shuji
 ; APPLICANT: ISHIIWA, Kenji
 ; TITLE OF INVENTION: SiATG Activating Gene
 ; FILE REFERENCE: 1254-0307P
 ; CURRENT APPLICATION NUMBER: US/10/153,668
 ; CURRENT FILING DATE: 2002-05-24
 ; PRIOR APPLICATION NUMBER: US 60/293,172
 ; PRIOR FILING DATE: 2001-05-25
 ; PRIOR APPLICATION NUMBER: US 60/316,031
 ; PRIOR FILING DATE: 2001-08-31
 ; PRIOR APPLICATION NUMBER: US 60/328,403
 ; PRIOR FILING DATE: 2001-10-12
 ; PRIOR APPLICATION NUMBER: JP 2001-157043
 ; PRIOR FILING DATE: 2001-05-25
 ; PRIOR APPLICATION NUMBER: JP 2001-260681
 ; PRIOR FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: JP 2001-313175
 ; PRIOR FILING DATE: 2001-10-10
 ; PRIOR APPLICATION NUMBER: JP 2001-313175
 ; PRIOR FILING DATE: 2001-10-10
 ; NUMBER OF SEQ ID NOS: 488
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO: 364
 ; LENGTH: 147
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-153-668-364

RESULT 9
 Sequence 1224 Application US/09925301
 ; Publication No. US20020052308A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
 ; FILE REFERENCE: PA106
 ; CURRENT APPLICATION NUMBER: US/09/925,301
 ; CURRENT FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: PCT/US00/05882
 ; PRIOR FILING DATE: 2000-03-08
 ; PRIOR APPLICATION NUMBER: PCT/US00/05882
 ; PRIOR FILING DATE: 1999-03-12

NUMBER OF SEQ ID NOS: 1694
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 1224
 LENGTH: 298
 TYPE: PRT
 FEATURE:
 NAME/KEY: SITE
 LOCATION: (279)
 OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
 US-09-925-301-1224

Query Match 73.8%; Score 31; DB 10; Length 298;
 Best Local Similarity 77.8%; Pred. No. 2.4e+02;
 Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 IPEETALK 9
 Db 62 IPEETALK 70

RESULT 10
 US-10-234-432-37
 Sequence 37. Application US/10234432
 Publication No. US20030091598A1
 GENERAL INFORMATION:
 APPLICANT: Homer, Mary J.
 APPLICANT: Loges, Michael J.
 APPLICANT: Houghton, Raymond L.
 APPLICANT: Persing, David H.
 APPLICANT: McNeill, Patricia D.
 TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DIAGNOSIS AND
 FILE REFERENCE: 210121.550
 CURRENT APPLICATION NUMBER: US/10/234,432
 CURRENT FILING DATE: 2002-08-30
 NUMBER OF SEQ ID NOS: 103
 SOFTWARE: Corixa Invention Disclosure Database
 SEQ ID NO: 37
 LENGTH: 541
 TYPE: PRT
 ORGANISM: Babesia sp. WAI
 US-10-234-432-37

Query Match 73.8%; Score 31; DB 9; Length 541;
 Best Local Similarity 85.7%; Pred. No. 4.8e+02;
 Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 2 PEESAL 8
 Db 36 PEESAL 42

RESULT 11
 US-09-914-435-434
 Sequence 434. Application US/09934455
 Publication No. US20030121070A1
 GENERAL INFORMATION:
 APPLICANT: Adam, Luc
 APPLICANT: Creelman, Robert
 APPLICANT: Dubell, Arnold
 APPLICANT: Haard, Jacqueline
 APPLICANT: Jiang, Cai-Zhong
 APPLICANT: Keddie, James
 APPLICANT: Pilgrim, Marsha
 APPLICANT: Ratcliffe, Oliver
 APPLICANT: Raufer, Lynne
 APPLICANT: Riechmann, Jose Luis
 APPLICANT: Yu, Guo-Liang
 APPLICANT: Pineda, Omaira
 TITLE OF INVENTION: Genes for Modifying Plant Traits IV
 FILE REFERENCE: MBI-0025
 CURRENT APPLICATION NUMBER: US/09/934,455

Query Match 73.8%; Score 31; DB 9; Length 653;
 Best Local Similarity 85.7%; Pred. No. 6e+02;
 Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 2 PEESAL 8
 Db 142 PEESAL 148

RESULT 13
 US-09-919-039-260
 Sequence 260. Application US/09919039
 Publication No. US20030108871A1
 GENERAL INFORMATION:
 APPLICANT: Kaser, Matthew R.
 TITLE OF INVENTION: GENES EXPRESSED IN TREATED HUMAN C3A LIVER CELL CULTURES
 FILE REFERENCE: PA-0035 US
 CURRENT APPLICATION NUMBER: US/09/919,039
 CURRENT FILING DATE: 2002-09-09
 PRIOR APPLICATION NUMBER: 60/222,113
 PRIOR FILING DATE: 2000-07-28
 NUMBER OF SEQ ID NOS: 401
 SOFTWARE: PRL Program
 SEQ ID NO: 260
 LENGTH: 654
 TYPE: PRT
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc feature
 OTHER INFORMATION: Incyte ID No. US20030108871A1 2993696CD1

US-09-919-039-260

Search completed: July 16, 2003, 06:57:41
 Job time : 9.88636 secs

Query Match 73.8%; Score 31; DB 9; Length 654;
 Best Local Similarity 85.7%; Pred. No. 6e+02;
 Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 2 PEEISAL 8
 Db 142 PEEISAM 148

RESULT 14
 US-09-919-172-54
 ; Sequence 54, Application US/09919172

; Patent No. US20020119463A1
 ; GENERAL INFORMATION:

; APPLICANT: Paris, Mary
 ; APPLICANT: Turner, Christopher M.
 ; TITLE OF INVENTION: PROSTATE CANCER MARKERS

; FILE REFERENCE: PA-0036 US

; CURRENT APPLICATION NUMBER: US/09/919,172

; CURRENT FILING DATE: 2001-07-30

; PRIOR APPLICATION NUMBER: 6/0222,469

; PRIOR FILING DATE: 2000-07-28

; NUMBER OF SEQ ID NOS: 102

; SOFTWARE: PERL Program

; SEQ ID NO 54

; LENGTH: 654

; TYPE: PRT

; ORGANISM: Homo sapiens

; FEATURE:

; NAME/KEY: misc_feature

; OTHER INFORMATION: Incyte ID No. US20020119463A1 2993696CD1

US-09-919-172-54

Query Match 73.8%; Score 31; DB 10; Length 654;

Best Local Similarity 85.7%; Pred. No. 6e+02;
 Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 PEEISAL 8
 Db 142 PEEISAM 148

RESULT 15
 US-10-117-641-36

; Sequence 36, Application US/10117641
 ; Publication No. US20020194640A1

; GENERAL INFORMATION:

; APPLICANT: Misra, Santosh et al.
 ; TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METH-

; FILE REFERENCE: 62586

; CURRENT APPLICATION NUMBER: US/10/117,641

; CURRENT FILING DATE: 2002-04-03

; PRIOR APPLICATION NUMBER: 09/632,538

; PRIOR FILING DATE: 2000-08-04

; NUMBER OF SEQ ID NOS: 37

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 36
 ; LENGTH: 655

; TYPE: PRT

; ORGANISM: Pseudotsuga menziesii

US-10-117-641-36

Query Match 73.8%; Score 31; DB 9; Length 655;

Best Local Similarity 85.7%; Pred. No. 6e+02;
 Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 PEEISAL 8
 Db 139 PEEISAM 145

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 1.65909 Seconds

(without alignments) 159.609 Million cell updates/sec

Title: US-09-308-140-2

Perfect score: 42

Sequence: 1 IPEETISALK 9

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep: *
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep: *
3: /cgn2_6/ptodata/1/iaa/5A_COMB.pep: *
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep: *
5: /cgn2_6/ptodata/1/iaa/5CTUS_COMB.pep: *
6: /cgn2_6/ptodata/1/iaa/backfile1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match Length | DB ID | Description |
|------------|-------|--------------------|-------|----------------------|
| 1 | 42 | 100.0 | 9 | US-08-898-351-2 |
| 2 | 33 | 78.6 | 6 | US-09-353-585-2 |
| 3 | 33 | 78.6 | 112 | US-09-353-585-3 |
| 4 | 33 | 78.6 | 112 | US-09-353-585-3 |
| 5 | 32 | 76.2 | 233 | US-08-836-236-8 |
| 6 | 31 | 73.8 | 46 | 519653-8 |
| 7 | 31 | 73.8 | 654 | 1 US-08-441-139-11 |
| 8 | 31 | 73.8 | 655 | 4 US-09-632-538C-36 |
| 9 | 31 | 73.8 | 663 | 1 US-08-441-139-7 |
| 10 | 31 | 73.8 | 666 | 1 US-08-441-139-16 |
| 11 | 31 | 73.8 | 707 | 4 US-09-228-986-80 |
| 12 | 31 | 73.8 | 1523 | 4 US-09-182-024A-2 |
| 13 | 30 | 71.4 | 62 | 4 US-09-006-428A-12 |
| 14 | 30 | 71.4 | 239 | 4 US-09-306-881-4 |
| 15 | 30 | 71.4 | 240 | 1 US-09-261-822A-71 |
| 16 | 30 | 71.4 | 240 | 5 PCT-US95-07742A-71 |
| 17 | 30 | 71.4 | 334 | 1 US-09-347-826A-2 |
| 18 | 30 | 71.4 | 335 | 1 US-08-347-826A-1 |
| 19 | 30 | 71.4 | 572 | 3 US-09-040-681A-4 |
| 20 | 30 | 71.4 | 572 | 4 US-09-497-897-4 |
| 21 | 30 | 71.4 | 907 | 3 US-08-938-830-26 |
| 22 | 30 | 71.4 | 907 | 3 US-09-020-222-26 |
| 23 | 29 | 69.0 | 154 | 4 US-09-228-986-89 |
| 24 | 29 | 69.0 | 154 | 1 US-09-213-448-1 |
| 25 | 29 | 69.0 | 166 | 2 US-08-477-310-1 |
| 26 | 29 | 69.0 | 166 | 3 US-08-912-768-1 |
| 27 | 29 | 69.0 | 166 | 4 US-09-331-260-2 |

ALIGNMENTS

| | |
|----------|--|
| RESULT 1 | US-08-898-351-2 |
| ; | Sequence 2, Appli |
| ; | Patent No. 6096867 |
| ; | GENERAL INFORMATION: |
| ; | APPLICANT: UNILEVER UNITED STATES, INC |
| ; | TITLE OF INVENTION: FROZEN FOOD PRODUCT |
| ; | FILE REFERENCE: FROZEN FOOD PRODUCT |
| ; | CURRENT APPLICATION NUMBER: US-08/898,351A |
| ; | CURRENT FILING DATE: 1997-07-22 |
| ; | NUMBER OF SEQ ID NOS: 5 |
| ; | SOFTWARE: PatentIn Ver. 2.0 |
| ; | SEQ ID NO 2 |
| ; | SEQ ID NO 2 |
| ; | LENGTH: 9 |
| ; | TYPE: PRT |
| ; | ORGANISM: CARROT ROOT |
| ; | US-08-898-351-2 |
| ; | Query Match |
| ; | Best Local Similarity 100.0%; Score 42; DB 3; Length 9; |
| ; | Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0; |
| Qy | 1 IPEETISALK 9 |
| Db | 1 IPEETISALK 9 |

| | | |
|-------------|--|-----------------------------|
| Query Match | 78.6% | Score 33; DB 6; Length 600; |
| ; | Best Local Similarity 100.0%; Score 33; DB 6; Length 600; | |
| ; | Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0; | |
| Qy | 1 IPEETISALK 9 | |
| Db | 1 IPEETISALK 9 | |

RESULT 3
US-09-353-585-2
; Sequence 2, Application US/09353585
; Patent No. 6287665
; GENERAL INFORMATION:
; APPLICANT: Dixon, Mark S
; Jones, David A.
; Jones, Jonathan DG
; TITLE OF INVENTION: Plant pathogen resistance genes and uses
; NUMBER OF SEQUENCES: 15
; NUMBER OF INVENTIONS: thereof
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Nixon & Vanderhye PC
; STREET: 8th Floor, 1100 No. 6287865th Glebe Road
; CITY: Arlington
; STATE: Virginia
; COUNTRY: United States of America
; ZIP: 22201-4714
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/353,585
; FILING DATE: 15-JUL-1999
; CLASSIFICATION: C12N 15/29, 15/82, A01H 5/00, A01N 65/00, C12Q 1/68
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/930,277
; FILING DATE: 27-OCT-1997
; APPLICATION NUMBER: PCT/GB96/00785
; FILING DATE: 01-APR-1996
; APPLICATION NUMBER: GB 9506658.5
; FILING DATE: 31-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ms Mary J Wilson
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 620-69
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 3:
; ATTORNEY/AGENT INFORMATION:
; NAME: Ms Mary J Wilson
; REGISTRATION NUMBER: 32,955
; REFERENCE/DOCKET NUMBER: 620-69
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 816-4000
; TELEFAX: (703) 816-4100
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1112 amino acids
; TYPE: amino acid
; STRANDEDNESS: <Unknown>
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; HYPOTHETICAL: YES
; ORIGINAL SOURCE:
; ORGANISM: Tomato
; STRAIN: Cf2
; SEQUENCE DESCRIPTION: SEQ ID NO: 2:
; US-09-353-585-2
; Query Match 78.6%; Score 33; DB 4; Length 1112;
; Best Local Similarity 77.8%; Pred. No. 3e+02; 1; Indels 0; Gaps 0;
; Matches 7; Conservative 1; Mismatches 1;
; QY 1 IPPEETALK 9
; DB 207 IPEEISYLR 215
; RESULT 5
; US-08-836-8
; Sequence 8, Application US/08836236
; Patent No. 610384
; GENERAL INFORMATION:
; APPLICANT: CARLOW, CLOTILDE K.S.
; APPLICANT: PERLER, FRANCINE B.
; APPLICANT: HONG, XI QIANG
; APPLICANT: MEJIA, JHON S.
; TITLE OF INVENTION: NOVEL PROTEIN FROM DROPHILARIA IMMUTIS
; TITLE OF INVENTION: AND METHOD FOR IMMUNODIAGNOSIS OF HEARTWORM IN MAMMALS
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NEW ENGLAND BIOLABS, INC.
; STREET: 32 TOZER ROAD
; CITY: BEVERLY
; RESULT 4
; US-09-353-585-3
; Sequence 3, Application US/09353585
; Patent No. 6287865
; GENERAL INFORMATION:
; APPLICANT: Dixon, Mark S
; APPLICANT: Jones, David A.
; APPLICANT: Jones, Jonathan DG

STATE: MASSACHUSETTS
 COUNTRY: US
 ZIP: 01915
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/836,236
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/420,976
 FILING DATE: 10-APR-1995
 ATTORNEY/AGENT INFORMATION:
 NAME: WILLIAMS, GREGORY D.
 REGISTRATION NUMBER: 30901
 REFERENCE/DOCKET NUMBER: NEB-112C-PCT
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (508) 927-7054
 TELEFAX: (508) 927-5054
 INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 233 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: unknown
 MOLECULE TYPE: protein
 US-08-836-236-8

RESULT 6
 Query Match 76.2%; Score 32; DB 3; Length 233;
 Best Local Similarity 66.7%; Pred. No. 89; 1; Mismatches 2; Indels 0; Gaps 0;
 Matches 6; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy 1 IPEPEALK 9
 Db 153 IPEVKELK 161

5196523-9
 Patent No. 5196523
 APPLICANT: LEE, AMY S.
 TITLE OF INVENTION: CONTROL OF GENE EXPRESSION BY GLUCOSE,
 CALCIUM AND TEMPERATURE
 NUMBER OF SEQUENCES: 28
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/354,988
 FILING DATE: 19-MAY-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 282,880
 FILING DATE: 05-DEC-1988
 APPLICATION NUMBER: 690,951
 FILING DATE: 01-JAN-1985
 SEQ ID NO: 8
 LENGTH: 46

Query Match 73.8%; Score 31; DB 1; Length 654;
 Best Local Similarity 85.7%; Pred. No. 4e+02; 1; Mismatches 0; Indels 0; Gaps 0;
 Matches 6; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 PEEISAL 8
 Db 142 PEEISAM 148

5196523-8

RESULT 8
 US-09-632-538C-36
 Sequence 36, Application US/09632538C
 Patent No. 6140674
 GENERAL INFORMATION:
 APPLICANT: Misra, Santosh et al.
 TITLE OF INVENTION: PLANT PROMOTER DERIVED FROM LUMINAL BINDING PROTEIN GENE AND METHYL
 FILE REFERENCE: 54359
 CURRENT APPLICATION NUMBER: US/09/632,538C
 CURRENT FILING DATE: 2000-08-04
 NUMBER OF SEQ ID NOS: 37
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 36
 LENGTH: 655
 TYPE: PRT
 ORGANISM: Pseudotsuga menziesii
 US-09-632-538C-36

Query Match 73.8%; Score 31; DB 4; Length 655;
 Best Local Similarity 85.7%; Pred. No. 4.1e-02; 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 PEETSAM 8
 Db 24 PEETSAM 30

RESULT 7
 US-08-441-139-11
 Sequence 11, Application US/08441139
 Patent No. 5773245
 GENERAL INFORMATION:

Qy 2 PERISAL 8
Db 139 PEEISAM 145

RESULT 9
US-08-441-139-7
Sequence 7, Application US/08441139
; Patent No. 5773245
; GENERAL INFORMATION:
; APPLICANT: Wittrup, Dr. Karl D.
; APPLICANT: Robinson, Anne S.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City
; STATE: NY USA
; ZIP: 11530

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/441,139
APPLICATION NUMBER: US/08/441,139
FILING DATE: 15-MAY-1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/089,997
FILING DATE: 06-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: DiGilio, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE DOCKET NUMBER: 8646

TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR

INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 666 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-441-139-7

RESULT 11
US-09-228-986-80
Sequence 80, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuzen, Niels
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 1100/11020
; CURRENT APPLICATION NUMBER: US/09/228,986
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 80
; LENGTH: 707
; TYPE: PRT
; ORGANISM: Pinus radiata
; US 09-228-986-80

Query Match 73.8%; Score 31; DB 1; Length 666;
Best Local Similarity 85.7%; Pred. No. 4.1e+02; Mismatches 0; Indels 0; Gaps 0;
Matches 6; Conservative 1;

Qy 2 PERISAL 8
Db 154 PEEISAM 160

RESULT 10
US-08-441-139-16
Sequence 16, Application US/08441139
; Patent No. 5773245
; GENERAL INFORMATION:
; APPLICANT: Wittrup, Dr. Karl D.
; APPLICANT: Robinson, Anne S.
; TITLE OF INVENTION: METHODS FOR INCREASING SECRETION OF
; TITLE OF INVENTION: RECOMBINANTLY EXPRESSED PROTEINS OF
; NUMBER OF SEQUENCES: 20
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCULLY, SCOTT, MURPHY & PRESSER
; STREET: 400 Garden City Plaza
; CITY: Garden City

Query Match 73.8%; Score 31; DB 4; Length 707;
Best Local Similarity 62.5%; Pred. No. 4.4e+02; Mismatches 5; Indels 0; Gaps 0;
Matches 3; Conservative 0;

Qy 2 PERISALK 9
Db 29 PDDVSALK 36

RESULT 12
US-09-182-024A-2
; Sequence 2, Application US/09182024A

Patent No. 6342370
 GENERAL INFORMATION:
 APPLICANT: Connolly, Timothy
 APPLICANT: Rajput, Bhannu
 TITLE OF INVENTION: Human Slit Polypeptide and Polynucleotides Encoding
 FILE REFERENCE: 640100-271
 CURRENT APPLICATION: US/09/182,024A
 CURRENT FILING DATE: 1998-10-29
 PRIORITY NUMBER: 60/063,945
 PRIORITY NUMBER: 60/096,420
 PRIORITY FILING DATE: 1997-10-31
 NUMBER OF SEQ ID NOS: 5
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 2
 LENGTH: 1523
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-182-024A-2

Query Match 73.8%; Score 31; DB 4; Length 1523;
 Best Local Similarity 55.6%; Pred. No. 9.8e+02; Mismatches 3; Indels 0; Gaps 0;
 Matches 5; Conservative 3; Mismatches 1; Indels 0; Gaps 0;

QY 1 IPEETALK 9
 :|:|:|:
 Db 767 VPRELSALR 775

RESULT 13
 US-09-006-428A-12
 Sequence 12, Application US/09006428A
 Patent No. 6444439
 GENERAL INFORMATION:
 APPLICANT: Jing Li
 APPLICANT: Kazuhisa Nishizawa
 APPLICANT: Wengqian An
 APPLICANT: Ellis L. Reinherz
 TITLE OF INVENTION: CLONING AND CHARACTERIZATION OF A
 TITLE OF INVENTION: CCL15-LIKE ADAPTOR PROTEIN (CD2BP1)
 FILE REFERENCE: 1062-1020-000
 CURRENT APPLICATION NUMBER: US/09/006,428A
 CURRENT FILING DATE: 1998-01-13
 NUMBER OF SEQ ID NOS: 28
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 12
 LENGTH: 62
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-006-428A-12

Query Match 71.4%; Score 30; DB 4; Length 239;
 Best Local Similarity 62.5%; Pred. No. 2.2e+02; Mismatches 5; Indels 0; Gaps 0;
 Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 1 IPEETALK 9
 :|:|:|:
 Db 140 IPGEISKLR 148

RESULT 15
 US-08-261-822A-71
 Sequence 71, Application US/08261822A
 Patent No. 5650553
 GENERAL INFORMATION:
 APPLICANT: Joseph R. et al.
 TITLE OF INVENTION: Plant Genes for Sensitivity to Ethylene
 NUMBER OF SEQUENCES: 82
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 5650553ris
 STREET: One Liberty Place, 46th Floor
 CITY: Philadelphia
 STATE: PA
 COUNTRY: USA
 ZIP: 19103
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/261,822A
 FILING DATE: 17-JUN-1994
 CLASSIFICATION: 536
 ATTORNEY/AGENT INFORMATION:
 NAME: Beardell, Lori Y.
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (215) 568-3100
 TELEFAX: (215) 568-3439
 INFORMATION FOR SEQ ID NO: 71:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 240 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: peptide
 HYPOTHETICAL: NO
 ANTI-SENSE: NO
 US-08-261-822A-71

Query Match 71.4%; Score 30; DB 1; Length 240;
 Best Local Similarity 62.5%; Pred. No. 2.2e+02; Mismatches 5; Indels 0; Gaps 0;
 Matches 5; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

QY 2 PEETALK 9
 :|:|:|:
 Db 41 PDEETALK 48

Search completed: July 16, 2003, 06:59:03
 Job time : 2.65909 secs

APPLICANT: Hsieh, Pei-chung
 APPLICANT: XU, Shuang-yong
 TITLE OF INVENTION: METHOD FOR CLONING AND PRODUCING THE TFII RESTRICTION
 FILE REFERENCE: NER-159
 CURRENT APPLICATION NUMBER: US/09/306,881A
 CURRENT FILING DATE: 1999-05-07

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 9.87374 Seconds
 (without alignments)

120.278 Million cell updates/sec

Title: US-09-308-140-3
 Perfect score: 45
 Sequence: 1 LTXLDLSFHK 10

Scoring table: BLOSUM62
 Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Published Applications_AA.*

1: /cgn2_6/ptodata/2/pupbaa/US07_NEW_PUB.pep:*

2: /cgn2_6/ptodata/2/pupbaa/PCT_NEW_PUB.pep:*

3: /cgn2_6/ptodata/2/pupbaa/US06_NEW_PUB.pep:*

4: /cgn2_6/ptodata/2/pupbaa/PCTUS6_PUBCOMB.pep:*

5: /cgn2_6/ptodata/2/pupbaa/PCUS6_PUBCOMB.pep:*

6: /cgn2_6/ptodata/2/pupbaa/US07_PUBCOMB.pep:*

7: /cgn2_6/ptodata/2/pupbaa/US08_NEW_PUB.pep:*

8: /cgn2_6/ptodata/2/pupbaa/US08_PUBCOMB.pep:*

9: /cgn2_6/ptodata/2/pupbaa/US09_NEW_PUB.pep:*

10: /cgn2_6/ptodata/2/pupbaa/US09_PUBCOMB.pep:*

11: /cgn2_6/ptodata/2/pupbaa/US10_NEW_PUB.pep:*

12: /cgn2_6/ptodata/2/pupbaa/US10_PUBCOMB.pep:*

13: /cgn2_6/ptodata/2/pupbaa/US60_NEW_PUB.pep:*

14: /cgn2_6/ptodata/2/pupbaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query | # | Match | Length | DB | ID | Description |
|------------|-------|-------|------|-------|--------------------|-----------------------|-----------------------|--|
| 1 | 44 | 97.8 | 345 | 9 | US-10-128-714-3396 | Sequence | 3396, Ap | RESULT 1 US-10-128-714-3396 |
| 2 | 44 | 97.8 | 356 | 9 | US-10-128-714-8396 | Sequence | 8396, Ap | Publication No. US2003019013A1 |
| 3 | 40 | 88.9 | 947 | 9 | US-10-101-4649-73 | Sequence | 73, Ap | GENERAL INFORMATION: |
| 4 | 38 | 84.4 | 180 | 9 | US-09-8959-73 | Sequence | 73, Ap | APPLICANT: JIANG, Bo |
| 5 | 38 | 84.4 | 194 | 9 | US-10-101-4649-668 | Sequence | 668, Ap | APPLICANT: Hu, Mengi |
| 6 | 38 | 84.4 | 677 | 9 | US-10-101-4649-891 | Sequence | 891, Ap | APPLICANT: Tishkoff, Daniel |
| 7 | 38 | 84.4 | 968 | 9 | US-10-101-4649-776 | Sequence | 776, Ap | APPLICANT: Zamudio, Carlos |
| 8 | 38 | 84.4 | 1399 | 9 | US-09-388-221-4 | Sequence | 4, Ap | APPLICANT: Broshin, Alexey M |
| 9 | 38 | 84.4 | 1424 | 9 | US-09-388-221-12 | Sequence | 12, Ap | APPLICANT: Lemieux, Sébastien M |
| 10 | 38 | 84.4 | 1459 | 9 | US-10-028-392-11 | Sequence | 11, Ap | TITLE OF INVENTION: Identification of Essential Genes in Aspergillus fumigatus and |
| 11 | 38 | 84.4 | 1429 | 10 | US-09-96-617-2 | Sequence | 2, Ap | FILE REFERENCE: 10182-018-939 |
| 12 | 38 | 84.4 | 1429 | 10 | US-09-931-071-2 | Sequence | 2, Ap | CURRENT APPLICATION NUMBER: US/10/128,714 |
| 13 | 38 | 84.4 | 1443 | 9 | US-09-388-221-6 | Sequence | 6, Ap | PRIOR APPLICATION NUMBER: US 60/285,697 |
| 14 | 38 | 84.4 | 1454 | 9 | US-09-388-221-10 | Sequence | 10, Ap | PRIOR FILING DATE: 2001-04-23 |
| 15 | 38 | 84.4 | 1473 | 9 | US-09-388-221-2 | Sequence | 2, Ap | PRIOR APPLICATION NUMBER: US 60/316,362 |
| 16 | 37 | 82.2 | 109 | 9 | US-10-101-4649-685 | Sequence | 685, Ap | PRIOR FILING DATE: 2001-08-31 |
| 17 | 37 | 82.2 | 290 | 9 | US-10-068-426-10 | Sequence | 10, Ap | NUMBER OF SEQ ID NOS: 8603 |
| 18 | 37 | 82.2 | 290 | 9 | US-10-068-426-11 | Sequence | 11, Ap | SOFTWARE: PatentIn version 3.1 |
| 19 | 37 | 82.2 | 290 | 9 | US-10-068-426-12 | Sequence | 12, Ap | SEQ ID NO 3396 |
| 20 | | | | | | LENGTH: | 345 | |
| 21 | | | | | | TYPE: | PRT | |
| 22 | | | | | | ORGANISM: | Aspergillus fumigatus | |
| 23 | | | | | | US-10-128-714-3396 | | |
| 24 | | | | | | Query Match | 97.8% | Score 44; DB 9; Length 345; |
| 25 | | | | | | Best Local Similarity | 90.0% | Pred. No. 0.23; |
| 26 | | | | | | Matches | 9 | Matches 0; Mismatches 1; Indels 0; Gaps 0; |
| 27 | | | | | | QV | 1 | 1 LTXLDLSFHK 10 |
| 28 | | | | | | Db | 113 | LTXLDLSFHK 122 |
| 29 | | | | | | Appl | | |
| 30 | | | | | | Sequence | 12, | |
| 31 | | | | | | Sequence | 1, | |
| 32 | | | | | | Sequence | 2, | |
| 33 | | | | | | Sequence | 3, | |
| 34 | | | | | | Sequence | 4, | |
| 35 | | | | | | Sequence | 5, | |
| 36 | | | | | | Sequence | 6, | |
| 37 | | | | | | Sequence | 7, | |
| 38 | | | | | | Sequence | 8, | |
| 39 | | | | | | Sequence | 9, | |
| 40 | | | | | | Sequence | 10, | |
| 41 | | | | | | Sequence | 11, | |
| 42 | | | | | | Sequence | 12, | |
| 43 | | | | | | Sequence | 13, | |
| 44 | | | | | | Sequence | 14, | |
| 45 | | | | | | Sequence | 15, | |

ALIGNMENTS

RESULT 2
US-10-128-714-8396 Application US/10128714
; Sequence 8396 Application US/10128714
; Publication No. US20030119013A1
GENERAL INFORMATION:
; APPLICANT: Jiang, Bo
; APPLICANT: Hu, Wengi
; APPLICANT: Tiskoff, Daniel
; APPLICANT: Zaudio, Carlos
; APPLICANT: Eroshkin, Alexey M
; APPLICANT: Lemieux, Sébastien M
; TITLE OF INVENTION: Identification of Essential Genes in *Aspergillus fumigatus* and
; TITLE OF INVENTION: Methods of Use
; FILE REFERENCE: 10182-018-999
; CURRENT APPLICATION NUMBER: US/10/128,714
; CURRENT FILING DATE: 2002-04-23
; PRIOR APPLICATION NUMBER: US 60/285,697
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 60/287,066
; PRIOR FILING DATE: 2001-04-27
; PRIOR APPLICATION NUMBER: US 60/295,890
; PRIOR FILING DATE: 2001-06-05
; PRIOR APPLICATION NUMBER: US 60/303,899
; PRIOR FILING DATE: 2001-07-09
; PRIOR APPLICATION NUMBER: US 60/316,362
; PRIOR FILING DATE: 2001-08-31
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 8396
; LENGTH: 356
; TYPE: PRT
; ORGANISM: *Aspergillus fumigatus*
; US-10-128-714-8396
Query Match 97.8%; Score 44; DB 9; Length 356;
Best Local Similarity 90.0%; Pred. No. 0.23; Mismatches 1; Indels 0; Gaps 0;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 LTXLDLSFNK 10
Db 124 LTXBDLSFNK 133

RESULT 3
US-10-101-464A-73
; Sequence 73 Application US/10101464A
; Publication No. US20030046728A1
GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 1100_1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 73
; LENGTH: 947
; TYPE: PRT
; ORGANISM: *Pinus radiata*
; US-10-101-464A-73

RESULT 4
US-09-895-298-73
; Sequence 73 Application US/09895298
; Publication No. US20030078405A1
GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 47 Human Secreted Proteins
; FILE REFERENCE: P2035P1
; CURRENT APPLICATION NUMBER: US/09/895,298
; PRIOR FILING DATE: 2001-07-02
; PRIOR APPLICATION NUMBER: 91/591,16
; PRIOR FILING DATE: 2001-06-09
; PRIOR APPLICATION NUMBER: PCT/US99/29950
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: 60/113,006
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 60/112,809
; PRIOR FILING DATE: 1998-12-17
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 73
; LENGTH: 180
; TYPE: PRT
; ORGANISM: *Homo sapiens*
; US-09-895-298-73
Query Match 84.4%; Score 38; DB 9; Length 180;
Best Local Similarity 88.9%; Pred. No. 2; Mismatches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 LTXLDLSFN 9
Db 85 LTXEDLSN 93

RESULT 5
US-10-101-464A-668
; Sequence 668 Application US/10101464A
; Publication No. US20030046728A1
GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 1100_1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; CURRENT FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: 09/228,986
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/162,866
; PRIOR FILING DATE: 1999-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 668
; LENGTH: 194
; TYPE: PRT
; ORGANISM: *Pinus radiata*
; US-10-101-464A-668

Query Match 84.4%; Score 38; DB 9; Length 194;
 Best Local Similarity 88.9%; Pred. No. 2.1; Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFN 9
 Db 185 LTRLDLSFN 193

RESULT 6
 US-10-101-464A-891
 Sequence 891, Application US/10101464A
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuijen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000 1020c2
 CURRENT APPLICATION NUMBER: US/10/101,464A
 CURRENT FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 891
 LENGTH: 677
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-10-101-464A-891

Query Match 84.4%; Score 38; DB 9; Length 677;
 Best Local Similarity 88.9%; Pred. No. 8.6; Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFN 9
 Db 185 LTRLDLSFN 193

RESULT 7
 US-10-101-464A-76
 Sequence 76, Application US/10101464A
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuijen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000 1020c2
 CURRENT APPLICATION NUMBER: US/10/101,464A
 CURRENT FILING DATE: 2002-03-18
 NUMBER OF SEQ ID NOS: 986
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 12
 LENGTH: 1424
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic

Query Match 84.4%; Score 38; DB 9; Length 1424;
 Best Local Similarity 88.9%; Pred. No. 20; Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFN 9
 Db 867 LTBLDLSFN 875

RESULT 8
 US-09-388-221-4
 Sequence 4, Application US/09388221A
 Publication No. US20020192643A1
 GENERAL INFORMATION:
 APPLICANT: Reed, John C.
 TITLE OF INVENTION: No. US20020192643A1 Card Proteins Involved in Cell Death Regul:
 FILE REFERENCE: P-LJ 350
 CURRENT APPLICATION NUMBER: US/09/388,221A
 CURRENT FILING DATE: 1999-03-01
 NUMBER OF SEQ ID NOS: 18
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 4
 LENGTH: 1399
 TYPE: PRT
 ORGANISM: Homo sapiens
 US-09-388-221-4

Query Match 84.4%; Score 38; DB 9; Length 1399;
 Best Local Similarity 88.9%; Pred. No. 19; Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFN 9
 Db 867 LTBLDLSFN 875

RESULT 9
 US-09-388-221-12
 Sequence 12, Application US/09388221A
 Publication No. US20020192643A1
 GENERAL INFORMATION:
 APPLICANT: Reed, John C.
 TITLE OF INVENTION: No. US20020192643A1 Card Proteins Involved in Cell Death Regul:
 FILE REFERENCE: P-LJ 3650
 CURRENT APPLICATION NUMBER: US/09/388,221A
 CURRENT FILING DATE: 1999-03-01
 NUMBER OF SEQ ID NOS: 18
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO: 12
 LENGTH: 1424
 TYPE: PRT
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic

Query Match 84.4%; Score 38; DB 9; Length 1424;
 Best Local Similarity 88.9%; Pred. No. 20; Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFN 9
 Db 867 LTBLDLSFN 875

RESULT 10
 US-10-028-392-11
 Sequence 11, Application US/10028392
 Publication No. US20030087340A1
 GENERAL INFORMATION:

APPLICANT: Bristol-Myers Squibb Company
 TITLE OF INVENTION: A NOVEL HUMAN LEUCINE-RICH REPEAT CONTAINING PROTEIN EXPRESSED
 ; PREDOMINATELY IN NERVOUS SYSTEM TISSUES, HLRNS1
 ; FILE REFERENCE: D0085..npD
 ; CURRENT APPLICATION NUMBER: US/10/028,392
 ; CURRENT FILING DATE: 2001-12-20
 ; PRIORITY FILING DATE: 2001-01-03
 ; PRIORITY APPLICATION NUMBER: US 60/260,616
 ; PRIORITY FILING DATE: 2001-01-09
 ; NUMBER OF SEQ ID NOS: 63
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO: 11
 ; LENGTH: 1429
 ; TYPE: PRT
 ; ORGANISM: homo sapiens
 ; US-10-028-392-11

Query Match 84.4%; Score 38; DB 9; Length 1429;
 Best Local Similarity 88.9%; Pred. No. 20; Length 1429;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 ; Patent No. US20020128198A1
 ; GENERAL INFORMATION:

QY 1 LTXLDLSFN 9
 Db 867 LTLDLDSFN 875

RESULT 11
 US-09-996-617-2
 ; Sequence 2, Application US/09996617
 ; CURRENT FILING DATE: 2001-11-27
 ; PRIORITY FILING DATE: 2001-08-15
 ; PRIORITY APPLICATION NUMBER: 09/428,252
 ; PRIORITY FILING DATE: 1999-10-27
 ; PRIORITY APPLICATION NUMBER: 09/340,620
 ; PRIORITY FILING DATE: 1999-06-28
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO: 2
 ; LENGTH: 1429
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-996-617-2

Query Match 84.4%; Score 38; DB 9; Length 1429;
 Best Local Similarity 88.9%; Pred. No. 20; Length 1429;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 ; Patent No. US20020128198A1
 ; GENERAL INFORMATION:

QY 1 LTXLDLSFN 9
 Db 867 LTLDLDSFN 875

RESULT 12
 US-09-931-071-2
 ; Sequence 2, Application US/09931071
 ; CURRENT FILING DATE: 1999-10-27
 ; PRIORITY FILING DATE: 1999-09-01
 ; PRIORITY APPLICATION NUMBER: US/09/931,071
 ; PRIORITY FILING DATE: 1999-06-28
 ; PRIORITY APPLICATION NUMBER: 09/340,620
 ; PRIORITY FILING DATE: 1999-06-28
 ; NUMBER OF SEQ ID NOS: 10
 ; SOFTWARE: PatentIn version 3.0
 ; SEQ ID NO: 11
 ; LENGTH: 1429
 ; TYPE: PRT
 ; ORGANISM: homo sapiens
 ; US-09-931-071-2

Query Match 84.4%; Score 38; DB 9; Length 1429;
 Best Local Similarity 88.9%; Pred. No. 20; Length 1429;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 ; Patent No. US20020128219A1
 ; GENERAL INFORMATION:

QY 1 LTXLDLSFN 9
 Db 867 LTLDLDSFN 875

RESULT 13
 US-09-388-221-6
 ; Sequence 6, Application US/09388221A
 ; Publication No. US20020192643A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Reed, John C.
 ; TITLE OF INVENTION: No. US20020192643A1 Cell Death Regul:
 ; FILE REFERENCE: P-LJ 3650
 ; CURRENT APPLICATION NUMBER: US/09/388,221A
 ; CURRENT FILING DATE: 1999-09-01
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 6
 ; LENGTH: 1443
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-388-221-6

Query Match 84.4%; Score 38; DB 9; Length 1443;
 Best Local Similarity 88.9%; Pred. No. 20; Length 1443;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 ; Patent No. US20020192643A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Reed, John C.
 ; TITLE OF INVENTION: No. US20020192643A1 Cell Death Regul:
 ; FILE REFERENCE: P-LJ 3650
 ; CURRENT APPLICATION NUMBER: US/09/388,221A
 ; CURRENT FILING DATE: 1999-09-01
 ; NUMBER OF SEQ ID NOS: 18
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO: 10
 ; LENGTH: 1454
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 ; US-09-388-221-10

Query Match 84.4%; Score 38; DB 9; Length 1454;
 Best Local Similarity 88.9%; Pred. No. 20; Length 1454;
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 ; Patent No. US20020128219A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Almeli, Emad S.
 ; TITLE OF INVENTION: NOVEL MOLECULES OF THE CARD-RELATED
 ; FILE REFERENCE: 07334-335001
 ; CURRENT APPLICATION NUMBER: US/09/931,071
 ; CURRENT FILING DATE: 2002-03-18

RESULT 15
US-09-388-221-2
; Sequence 2, Application US/09388221A
; Publication No. US20020192643A1
; GENERAL INFORMATION:
; APPLICANT: Reed, John C.
; TITLE OF INVENTION: No. US20020192643A1el Card Proteins Involved in Cell Death Regul
; FILE REFERENCE: P-LJ 3650
; CURRENT APPLICATION NUMBER: US/09/388,221A
; CURRENT FILING DATE: 1999-09-01
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 1473
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-388-221-2

Query Match 84 4%; Score 38; DB 9; Length 1473;
Best Local Similarity 88 9%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 1; Indels 0;
Gaps 0;
QY 1 LTXLDLUSFN 9
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Db 867 LTELDSLUSFN 875

Search completed: July 16, 2003, 06:57:41
Job time : 9.87374 secs

GenCore version 5.1.6
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On protein - protein search, using sw model.

Run on:

July 16, 2003, 06:51:01 ; Search time 24.5707 Seconds

(without alignments)

262.399 Million cell updates/sec

Title: US-09-308-110-3

Perfect score: 45

Sequence: 1 LTXLDLSFNK 10

Scoring table: BloSUM62

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Searched: 4569144 seqs, 644733110 residues

Total number of hits satisfying chosen parameters: 4569144

Minimum DB seq length: 0

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Maximum Match 100%

Listing first 45 summaries

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/cgn2_6/ptodata/1/paa/US60_COMB.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

| Result No. | Score | Query Match | Length | DB ID | Description |
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| 1 | 44 | 97.8 | 123 | 18 | US-09-417-507-28742 |
| 2 | 44 | 97.8 | 295 | 27 | US-60-360-039-696 |
| 3 | 44 | 97.8 | 338 | 21 | US-07-791-537-552 |
| 4 | 44 | 97.8 | 345 | 1 | PCT-US02-13142-3396 |
| 5 | 44 | 97.8 | 345 | 25 | US-10-128-714-3396 |
| 6 | 44 | 97.8 | 345 | 27 | US-60-316-362-3396 |

RESULT 1
US-09-417-507-28742
; Sequence 28742, Application US/09417507
; GENERAL INFORMATION:
; APPLICANT: KEITH G. WEINSTOCK ET AL.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ASPERGILLUS
; TITLE OF INVENTION: FUMIGATUS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: PATH99-10
; CURRENT APPLICATION NUMBER: US/09-417,507
; CURRENT FILING DATE: 1999-10-14
; NUMBER OF SEQ ID NOS: 44312
; SEQ ID NO: 28742
; LENGTH: 123
; TYPE: PRT
; ORGANISM: A.fumigatus
US-09-417-507-28742
Query Match 97.8%; Score 44; DB 18; Length 123;
Best Local Similarity 90.0%; Pred. No. 1.1;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 1 LTXLDLSFNK 10
Db 44 LTXLDLSFNK 53
Sequence 8396, AP
Sequence 8396, AP
Sequence 3, APPL
Sequence 12, APPL
Sequence 7, APPL
Sequence 427, APPL
Sequence 59074, AP
Sequence 74, APPL
Sequence 101, APPL
Sequence 215, APPL
Sequence 46, APPL
Sequence 18996, A
Sequence 18996, A
Sequence 1552, A
Sequence 7585, AP
Sequence 15529, A
Sequence 4892, AP
Sequence 5775, AP
Sequence 7829, AP
Sequence 37419, A
Sequence 37033, A
Sequence 677, APPL
Sequence 513, APPL
Sequence 73, APPL
Sequence 73, APPL
Sequence 73, APPL
Sequence 106949, AP
Sequence 26422, A
Sequence 3908, AP
Sequence 14165, A
Sequence 14251, A
Sequence 14252, A
Sequence 14154, A
Sequence 43183, A
Sequence 66558, AP
Sequence 1959, AP
Sequence 1959, AP
Sequence 1958, AP
ALIGMENTS

GENERAL INFORMATION:
 APPLICANT: Cao, Yongwei
 APPLICANT: Chen, Xianfeng
 APPLICANT: Goldblatt, Barry S.
 APPLICANT: Hinkle, Gregory J.
 APPLICANT: Slater, Steven C.
 TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
 FILE REFERENCE: 38-10152052A
 CURRENT APPLICATION NUMBER: US/60/3360, 039
 CURRENT FILING DATE: 2002-02-21
 NUMBER OF SEQ ID NOS: 47374
 SEQ ID NO: 3396
 LENGTH: 295
 TYPE: PRT
 ORGANISM: *Neurospora crassa*
 US-60-360-039-3696

Query Match 97.8%; Score 44; DB 27; Length 295;
 Best Local Similarity 90.0%; Pred. No. 2.7;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDSLFSNK 10
 Db 80 LTXLDSLFSNK 89

RESULT 3
 US-09-791-537-6552
 GENERAL INFORMATION:
 Sequence 6552, Application US/09791537
 APPLICANT: Bionomix, Inc.
 APPLICANT: Debe, Derek
 APPLICANT: Denner, Joseph
 TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBER
 TITLE OF INVENTION: METHODS OF USE THEREOF
 FILE REFERENCE: 261/210
 CURRENT APPLICATION NUMBER: US/09/791, 537
 CURRENT FILING DATE: 2001-02-22
 NUMBER OF SEQ ID NOS: 153055
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 6552
 LENGTH: 338
 TYPE: PRT
 ORGANISM: *Saccharomyces cerevisiae*
 US-09-791-537-6552

Query Match 97.8%; Score 44; DB 21; Length 338;
 Best Local Similarity 90.0%; Pred. No. 3.1;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDSLFSNK 10
 Db 115 LTXLDSLFSNK 124

RESULT 4
 PCT-US02-13142-3396
 Sequence 3396, Application PC/TUS0213142
 GENERAL INFORMATION:
 APPLICANT: Eltrra Pharmaceuticals, Inc.
 TITLE OF INVENTION: Identification of Essential Genes in *Aspergillus fumigatus* and
 TITLE OF INVENTION: Methods of Use
 CURRENT APPLICATION NUMBER: PCT/US02/13142
 CURRENT FILING DATE: 2002-04-23
 PRIOR APPLICATION NUMBER: US 60/285, 697
 PRIOR FILING DATE: 2001-06-05
 NUMBER OF SEQ ID NOS: 8603
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 3396
 LENGTH: 345
 TYPE: PRT
 ORGANISM: *Aspergillus fumigatus*
 US-10-128-714-3396

Query Match 97.8%; Score 44; DB 25; Length 345;
 Best Local Similarity 90.0%; Pred. No. 3.2;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDSLFSNK 10
 Db 113 LTXLDSLFSNK 122

RESULT 5
 US-10-128-714-3396
 Sequence 3396, Application US/10128714
 GENERAL INFORMATION:
 APPLICANT: Jiang, Bo
 APPLICANT: Hu, Wensi
 APPLICANT: Tishkoff, Daniel
 APPLICANT: Zamudio, Carlos
 APPLICANT: Broskin, Alexey M
 APPLICANT: Lemieux, Sébastien M
 TITLE OF INVENTION: Identification of Essential Genes in *Aspergillus fumigatus* and
 FILE REFERENCE: 1018-018-999
 CURRENT APPLICATION NUMBER: US/10/128, 714
 CURRENT FILING DATE: 2002-04-23
 PRIOR APPLICATION NUMBER: US 60/285, 697
 PRIOR FILING DATE: 2001-04-23
 NUMBER OF SEQ ID NOS: 8603
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 3396
 LENGTH: 345
 TYPE: PRT
 ORGANISM: *Aspergillus fumigatus*
 PCT-US02-13142-3396

Query Match 97.8%; Score 44; DB 1; Length 345;
 Best Local Similarity 90.0%; Pred. No. 3.2;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDSLFSNK 10
 Db 113 LTXLDSLFSNK 122

RESULT 6
 US-60-316-362-3396
 Sequence 3396, Application US/60316362
 GENERAL INFORMATION:
 APPLICANT: Jiang, Bo
 APPLICANT: Tishkoff, Daniel
 APPLICANT: Zamudio, Carlos
 APPLICANT: Broskin, Alexey M
 TITLE OF INVENTION: Identification of Essential Genes of *Aspergillus fumigatus* and
 FILE REFERENCE: 10182-012-888

PRIOR FILING DATE: 1996-11-19
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO: 12
 LENGTH: 197
 TYPE: PRT
 ORGANISM: Daucus carota
 US-09-308-140-12

Query Match 93.3%; Score 42; DB 21; Length 332;
 Best Local Similarity 90.0%; Pred. No. 7.9;
 Matches 9; Conservative 0; Mismatches 1; Indels 0;
 Gaps 0;

Qy 1 LTXLDLSFNK 10
 Db 13 LTCLDLSFNK 22

RESULT 11
 US-09-308-140-7
 Sequence 7, Application US/09308140
 GENERAL INFORMATION:
 APPLICANT: BYASS, LOUISE J.
 APPLICANT: DOUCET, CHARLOTTE J.
 TITLE OF INVENTION: CARROT ANTIFREEZE POLYPEPTIDES
 FILE REFERENCE: F7371(C)
 CURRENT APPLICATION NUMBER: US/09/308,140
 CURRENT FILING DATE: 1999-12-30
 PRIOR APPLICATION NUMBER: PCT/EP97/06181
 PRIOR FILING DATE: 1997-11-06
 PRIOR APPLICATION NUMBER: EP 96308362.1
 PRIOR FILING DATE: 1996-11-19
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO: 7
 LENGTH: 332
 TYPE: PRT
 ORGANISM: Daucus carota
 US-09-308-140-7

Query Match 93.3%; Score 42; DB 17; Length 332;
 Best Local Similarity 90.0%; Pred. No. 7.9;
 Matches 9; Conservative 0; Mismatches 1; Indels 0;
 Gaps 0;

Qy 1 LTXLDLSFNK 10
 Db 148 LTCLDLSFNK 157

RESULT 12
 US-09-791-537-427
 Sequence 427, Application US/09791537
 GENERAL INFORMATION:
 APPLICANT: Bionomix, Inc.
 APPLICANT: Debe, Derek
 APPLICANT: Danzer, Joseph
 TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBERS
 FILE REFERENCE: 261/210
 CURRENT FILING DATE: 1999-06-25
 NUMBER OF SEQ ID NOS: 12
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 74
 LENGTH: 79
 TYPE: PRT
 ORGANISM: Drosophila
 US-09-791-537-427

Query Match 88.9%; Score 40; DB 27; Length 79;
 Best Local Similarity 80.0%; Pred. No. 4.4;
 Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFNK 10
 Db 24 LTCLDLSFNK 33

RESULT 13
 US-09-791-537-59074
 Sequence 59074, Application US/09791537
 GENERAL INFORMATION:
 APPLICANT: Bionomix, Inc.
 APPLICANT: Debe, Derek
 APPLICANT: Danzer, Joseph
 TITLE OF INVENTION: THREE DIMENSIONAL STRUCTURES OF PROTEIN FAMILIES AND FAMILY MEMBERS
 FILE REFERENCE: 261/210
 CURRENT APPLICATION NUMBER: US/09/791,537
 CURRENT FILING DATE: 2001-02-22
 NUMBER OF SEQ ID NOS: 15305
 SOFTWARE: Patentin version 3.0
 SEQ ID NO: 59074
 LENGTH: 857
 TYPE: PRT
 ORGANISM: Caenorhabditis elegans
 US-09-791-537-59074

Query Match 91.1%; Score 41; DB 21; Length 857;
 Best Local Similarity 80.0%; Pred. No. 35;
 Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFNK 10
 Db 293 LTCLDLSFNK 302

RESULT 14
 US-60-140-802-74
 Sequence 74, Application US/60140802
 GENERAL INFORMATION:
 APPLICANT: Kerlavage, Anthony
 TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS, PROTEINS, AND USES
 TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
 FILE REFERENCE: C1000039
 CURRENT APPLICATION NUMBER: US/60/140,802
 CURRENT FILING DATE: 1999-06-25
 NUMBER OF SEQ ID NOS: 92
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 74
 LENGTH: 79
 TYPE: PRT
 ORGANISM: Drosophila
 US-60-140-802-74

Query Match 88.9%; Score 40; DB 27; Length 79;
 Best Local Similarity 80.0%; Pred. No. 4.4;
 Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFNK 10
 Db 24 LTCLDLSFNK 33

RESULT 15
 US-60-142-787-101
 Sequence 101, Application US/60142787
 GENERAL INFORMATION:
 APPLICANT: Kerlavage, Anthony
 TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS, PROTEINS, AND USES
 TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
 FILE REFERENCE: C1000050
 CURRENT APPLICATION NUMBER: US/60/142,787
 CURRENT FILING DATE: 1999-07-08

Query Match 93.3%; Score 42; DB 21; Length 332;
 Best Local Similarity 90.0%; Pred. No. 7.9;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFNK 10
 Db 24 LTCLDLSFNK 33

RESULT 16
 US-09-791-537-427
 Sequence 427, Application US/09791537
 GENERAL INFORMATION:
 APPLICANT: Kerlavage, Anthony
 TITLE OF INVENTION: ISOLATED G-PROTEIN COUPLED RECEPTORS, PROTEINS, AND USES
 TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING GPCR PROTEINS, AND USES
 FILE REFERENCE: C1000050
 CURRENT APPLICATION NUMBER: US/60/142,787
 CURRENT FILING DATE: 1999-07-08

; NUMBER OF SEQ ID NOS: 106
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO: 101
; LENGTH: 107
; TYPE: PRT
; ORGANISM: Drosophila
; US-60-142-787-101

Query Match 88.9%; Score 40; DB 27; Length 107;
Best Local Similarity 80.0%; Pred. No. 6.1;
Matches 8; Conservative 1; Mismatches 1; Indels 0;
Gaps 0;
QY 1 LTXLDSLFSNK 10
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Db 70 LTFPLDLSYK 79

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GenCore version 5.1.6
 Copyright (c) 1993 - 2003 Compugen Ltd.

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 (without alignments)
 159.609 Million cell updates/sec

Title: US-09-308-140-3
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

RESULT 1
 US-08-898-351-3
 ; Sequence 3, Application US/08898351A
 ; Patent No. 6396867
 ; GENERAL INFORMATION:
 ; APPLICANT: UNILEVER UNITED STATES, INC
 ; TITLE OF INVENTION: FROZEN FOOD PRODUCT
 ; FILE REFERENCE: FROZEN FOOD PRODUCT
 ; CURRENT APPLICATION NUMBER: US/08/898,351A
 ; NUMBER OF SEQ ID NOS: 5
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 3
 ; LENGTH: 10
 ; TYPE: PRT
 ; ORGANISM: CARROT ROOT
 ; FEATURE:
 ; NAME/KEY: UNSURE
 ; LOCATION: (3)
 ; OTHER INFORMATION: Xaa represents any amino acid in plant protein

US-08-898-351-3
 ; Sequence 3, Application US/08898351A
 ; Patent No. 6396867
 ; GENERAL INFORMATION:
 ; APPLICANT: UNILEVER UNITED STATES, INC
 ; TITLE OF INVENTION: FROZEN FOOD PRODUCT
 ; FILE REFERENCE: FROZEN FOOD PRODUCT
 ; CURRENT APPLICATION NUMBER: US/08/898,351A
 ; NUMBER OF SEQ ID NOS: 5
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 3
 ; LENGTH: 10
 ; TYPE: PRT
 ; ORGANISM: CARROT ROOT
 ; FEATURE:
 ; NAME/KEY: UNSURE
 ; LOCATION: (3)
 ; OTHER INFORMATION: Xaa represents any amino acid in plant protein

RESULT 2
 US-09-228-986-73
 ; Sequence 73, Application US/09228986
 ; Patent No. 635198
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Nieuwenhuijzen, Niels
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signalling
 ; FILE REFERENCE: 11/000/020
 ; CURRENT APPLICATION NUMBER: US/09/228,986
 ; CURRENT FILING DATE: 1999-01-12
 ; NUMBER OF SEQ ID NOS: 130
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 73
 ; LENGTH: 947
 ; TYPE: PRT
 ; ORGANISM: Pinus radiata
 ; US-09-228-986-73

Query Match 88.9%; Score 40; DB 4; Length 947;
 Best Local Similarity 80.0%; Pred. No. 2.3; 1; Mismatches 8; Conservative 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFNK 10
 Db 211 LTYLDLSFNR 220

RESULT 3
 US-08-473-553A-3
 Sequence 3, Application US/08473553A
 Patent No. 5859338
 GENERAL INFORMATION:
 APPLICANT: Meyerowitz, Elliot M.
 APPLICANT: Clark, Steven E.
 APPLICANT: Williams, Robert W.
 TITLE OF INVENTION: Plant Clavatral Nucleic Acids, Transformed Plants, and Proteins
 NUMBER OF SEQUENCES: 11
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Flehr, Honbach, Test, Albritton & Herbert
 STREET: Four Embarcadero Center, Suite 3400
 CITY: San Francisco
 STATE: California
 COUNTRY: United States
 ZIP: 94111-4187

COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/473,553A
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Silva, Robin M.
 REGISTRATION NUMBER: 38,304
 REFERENCE/DOCKET NUMBER: A-60886/RFT/RMS
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 781-1989
 TELEFAX: (415) 398-3249
 TELEX: 910 277299

INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 523 amino acids
 REFERENCE/DOCKET NUMBER: A-60886/RFT/RMS
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 781-1989
 TELEFAX: (415) 398-3249
 TELEX: 910 277299

ATTORNEY/AGENT INFORMATION:
 NAME: Silva, Robin M.
 REGISTRATION NUMBER: 38,304
 REFERENCE/DOCKET NUMBER: A-60886/RFT/RMS
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 781-1989
 TELEFAX: (415) 398-3249
 TELEX: 910 277299

INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 980 amino acids
 TYPE: amino acid
 STRANDEDNESS: unknown
 TOPOLOGY: unknown
 MOLECULE TYPE: protein

US-08-473-553A-6

Query Match 86.7%; Score 39; DB 2; Length 980;
 Best Local Similarity 88.9%; Pred. No. 3.8; 1; Mismatches 8; Conservative 0; Indels 0; Gaps 0;

Qy 1 LTXLDLSFN 9
 Db 578 LTTLDLSFN 586

RESULT 5
 US-08-473-553A-2
 Sequence 2, Application US/08473553A
 Patent No. 5859338
 GENERAL INFORMATION:
 APPLICANT: Meyerowitz, Elliot M.
 APPLICANT: Clark, Steven E.
 APPLICANT: Williams, Robert W.
 TITLE OF INVENTION: Plant Clavatral Nucleic Acids, Transformed Plants, and Proteins
 NUMBER OF SEQUENCES: 11
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Flehr, Honbach, Test, Albritton & Herbert
 STREET: Four Embarcadero Center, Suite 3400
 CITY: San Francisco
 STATE: California
 COUNTRY: United States
 ZIP: 94111-4187

COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/473,553A
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Silva, Robin M.
 REGISTRATION NUMBER: 38,304
 REFERENCE/DOCKET NUMBER: A-60886/RFT/RMS
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 781-1989
 TELEFAX: (415) 398-3249
 TELEX: 910 277299

INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 509 LTTLDLSFN 517

Query Match 86.7%; Score 39; DB 2; Length 523;
 Best Local Similarity 88.9%; Pred. No. 1.9; 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 LTXLDLSFN 9
 Db 509 LTTLDLSFN 517

RESULT 4
 US-08-473-553A-6
 Sequence 6, Application US/08473553A
 Patent No. 5859338
 GENERAL INFORMATION:
 APPLICANT: Meyerowitz, Elliot M.
 APPLICANT: Clark, Steven E.
 APPLICANT: Williams, Robert W.
 TITLE OF INVENTION: Plant Clavatral Nucleic Acids, Transformed Plants, and Proteins

REFERENCE/DOCKET NUMBER: A-60885/RFT/RMS
 TELEPHONE: (415) 781-1989
 TELEFAX: (415) 398-3249

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 985 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-473-553A-2

Query Match 86.7%; Score 39; DB 2; Length 985;
 Best Local Similarity 88.9%; Pred. No. 3.8;
 Matches 8; Conservative 0; Mismatches 1; Indels 0;
 Gaps 0;

Qy 1 LTXLDLSFN 9
 Db 583 LTXLDLSFN 591

RESULT 6

US-08-238-163-2
 Sequence 2, Application US/08238163
 General Information:

APPLICANT: BENNETT, Alan
 APPLICANT: LABAVITCH, John M.
 APPLICANT: POWELL, Ann
 APPLICANT: STOTZ, Henrik

TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL
 POLYGLACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
 NUMBER OF SEQUENCES: 24
 CURRENT APPLICATION NUMBER: US/08/238163

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend Khourie and Crew
 STREET: Stewart Street Tower, One Market Plaza
 CITY: San Francisco
 STATE: California
 COUNTRY: US

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/238163
 FILING DATE: 01-MAY-1994

CLASSIFICATION: 80
 ATTORNEY/AGENT INFORMATION:
 NAME: Bastian, Kevin L.

REGISTRATION NUMBER: 34,774
 REFERENCE/DOCKET NUMBER: 23073-540

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 542-9600
 TELEFAX: (415) 543-5043

INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 330 amino acids

TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-238-163-2

Query Match 84.4%; Score 38; DB 1; Length 330;
 Best Local Similarity 88.9%; Pred. No. 1.9;
 Matches 8; Conservative 0; Mismatches 1; Indels 0;
 Gaps 0;

Qy 1 LTXLDLSFN 9
 Db 145 LTFLDLSFN 153

RESULT 7

US-09-228-986-76
 Sequence 75, Application US/09228986

Patent No. 635998
 GENERAL INFORMATION:

APPLICANT: Strabal, Timothy
 APPLICANT: Nieuwenhuizen, Niels

TITLE OF INVENTION: Compositions isolated from Plant Cells
 and Their Use in the Modification of Plant Cell Signalling
 FILE REFERENCE: 110001/020

CURRENT FILING DATE: 1999-01-12
 NUMBER OF SEQ ID NOS: 130
 SOFTWARE: FASTSEQ for Windows Version 3.0
 SEQ ID NO: 76
 LENGTH: 968

TYPE: PRT
 ORGANISM: Eucalyptus grandis

US-09-228-986-76

Query Match 84.4%; Score 38; DB 4; Length 968;
 Best Local Similarity 80.0%; Pred. No. 6;
 Matches 8; Conservative 0; Mismatches 2; Indels 0;
 Gaps 0;

Qy 1 LTXLDLSFN 10
 Db 96 LRSLDLSFN 105

RESULT 8

US-08-658-136-35
 Sequence 35, Application US/08658136

Patent No. 6071717
 GENERAL INFORMATION:

APPLICANT: Klinger, Katherine W
 APPLICANT: Landes, Gregory M
 APPLICANT: Burn, Timothy C
 APPLICANT: Connors, Timothy D
 APPLICANT: Dackowski, William
 APPLICANT: Germino, Gregory
 APPLICANT: Qian, Feng

TITLE OF INVENTION: POLYCYSTIC KIDNEY DISEASE GENE
 NUMBER OF SEQUENCES: 58
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: GENzyme CORPORATION
 STREET: ONE MOUNTAIN ROAD

CITY: FRAMINGHAM
 STATE: MASSACHUSETTS
 COUNTRY: USA

ZIP: 01701
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #11.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/658,136
 FILING DATE:

CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Lassen, Elizabeth

REGISTRATION NUMBER: 31,845
 REFERENCE/DOCKET NUMBER: GEN4-17.8
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 508-872-8400

INFORMATION FOR SEQ ID NO: 35:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 34 amino acids

TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein

US-08-238-163-2

US-09-658-136-35

Query Match 82.2%; Score 37; DB 3; Length 34;
 Best Local Similarity 70.0%; Pred. No. 0.28;
 Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 1 LTXLDLSFNK 10
 Db 7 LTVLDBVSFNR 16

RESULT 9

Sequence 1, Application US/07613083B
 Patent No. 5340727

GENERAL INFORMATION:
 APPLICANT: Ruggeri, Zaverio M.
 APPLICANT: Ware, Jerry, inventors
 APPLICANT: Foundation on behalf of Scripps Clinic and Research

APPLICANT: Foundation
 TITLE OF INVENTION: GP1b, Fragments and Recombinant
 TITLE OF INVENTION: GP1b, Fragments and Recombinant
 NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle
 STREET: Clinton Square, P.O. Box 1051
 CITY: Rochester
 STATE: New York
 COUNTRY: USA
 ZIP: 14603

COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/821.717B
 FILING DATE: 15-JAN-1992
 CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:
 NAME: Timain, Susan J.
 REGISTRATION NUMBER: 34,103
 REFERENCE/DOCKET NUMBER: 20084/21

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (716) 263-1636
 TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 610 amino acids
 STRANDEDNESS:
 TYPE: amino acid

TOPOLOGY: linear
 MOLECULE TYPE: protein
 PUBLICATION INFORMATION:
 AUTHORS: Lopez, Jose A.

AUTHORS: Chung, Dominic W.
 AUTHORS: Fujikawa, Kazuo
 AUTHORS: Hagen, Frederick S.
 AUTHORS: Papavannopoulos, Thalia

AUTHORS: Roth, Gerald J.
 TITLE: Cloning of the alpha chain of human
 TITLE: platelet glycoprotein Ib: A transmembrane protein with homology
 TITLE: to leucine-rich alpha-2-glycoprotein
 JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
 VOLUME: 84
 PAGES: 5615-5619

PUBLICATION INFORMATION:
 DATE: AUG-1987
 RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 610

AUTHORS: Zimmerman, Theodore S.
 AUTHORS: Ruggeri, Zaverio M.
 AUTHORS: Houghten, Richard A.
 AUTHORS: Vincente, Vinete
 AUTHORS: Mohri, Hiroshi

TITLE: Peptides that block the binding of von Willebrand factor to the
 TITLE: platelet membrane glycoprotein Ib
 DOCUMENT NUMBER: EP 0 317 278 A2
 FILING DATE: 16-NOV-1988
 PUBLICATION DATE: 24-MAY-1989

RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 293

US-07-613-083B-1

RESULT 10
 Query Match 82.2%; Score 37; DB 1; Length 320;
 Best Local Similarity 70.0%; Pred. No. 3;
 Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 LTXLDLSFNK 10
 Db 102 LTVLDBVSFNR 111

Query Match 82.2%; Score 37; DB 1; Length 34;
 Best Local Similarity 70.0%; Pred. No. 6;
 Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 LTXLDLSFNK 10
 Db 102 LTVLDBVSFNR 111

RESULT 10
 US-07-821-717B-6
 Sequence 6, Application US/07821717B
 Patent No. 529839
 GENERAL INFORMATION:
 APPLICANT: Miller, Jonathan L.

APPLICANT: Cunningham, David
 APPLICANT: Finch, Vicki A.
 APPLICANT: Finch, Clara N.
 TITLE OF INVENTION: MUTATIONS RENDERING PLATELET
 TITLE OF INVENTION: GLYCOPROTEIN 1b ALPHA-LESS REACTIVE
 NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle
 STREET: Clinton Square, P.O. Box 1051
 CITY: Rochester
 STATE: New York

COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/821.717B
 FILING DATE: 15-JAN-1992
 CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:
 NAME: Timain, Susan J.
 REGISTRATION NUMBER: 34,103
 REFERENCE/DOCKET NUMBER: 20084/21

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (716) 263-1636
 TELEFAX: (716) 263-1600

INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 610 amino acids
 STRANDEDNESS:
 TYPE: amino acid

TOPOLOGY: linear
 MOLECULE TYPE: protein
 PUBLICATION INFORMATION:
 AUTHORS: Lopez, Jose A.

AUTHORS: Chung, Dominic W.
 AUTHORS: Fujikawa, Kazuo
 AUTHORS: Hagen, Frederick S.
 AUTHORS: Papavannopoulos, Thalia

AUTHORS: Roth, Gerald J.
 TITLE: Cloning of the alpha chain of human
 TITLE: platelet glycoprotein Ib: A transmembrane protein with homology
 TITLE: to leucine-rich alpha-2-glycoprotein
 JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
 VOLUME: 84
 PAGES: 5615-5619

PUBLICATION INFORMATION:
 DATE: AUG-1987
 RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 610

AUTHORS: Zimmerman, Theodore S.
 AUTHORS: Ruggeri, Zaverio M.
 AUTHORS: Houghten, Richard A.
 AUTHORS: Vincente, Vinete
 AUTHORS: Mohri, Hiroshi

TITLE: Peptides that block the binding of von Willebrand factor to the
 TITLE: platelet membrane glycoprotein Ib
 DOCUMENT NUMBER: EP 0 317 278 A2
 FILING DATE: 16-NOV-1988
 PUBLICATION DATE: 24-MAY-1989

RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 293

US-07-821-717B-6

RESULT 11
 US-08-119-262B-6
 Sequence 6, Application US/08119262B
 Patent No. 5492809
 GENERAL INFORMATION:
 APPLICANT: Miller, Jonathan L.
 APPLICANT: Cunningham, David
 APPLICANT: Lyle, Vicki A.
 APPLICANT: Finch, Clara N.
 TITLE OF INVENTION: MUTATIONS RENDERING PLATELET NUMBER OF SEQUENCES: 6
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Nixon, Haiggrave, Devans & Doyle
 STREET: Clinton Square, P.O. Box 1051
 CITY: Rochester
 STATE: New York
 COUNTRY: USA
 ZIP: 14603
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/119,262B
 FILING DATE: 09-SEP-1993
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/821,717
 FILING DATE: 15-JAN-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Timain, Susan J.
 REGISTRATION NUMBER: 34,103
 REFERENCE/DOCKET NUMBER: 20084/22
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (716) 263-1636
 TELEX: 978450
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 610 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 PUBLICATION INFORMATION:
 AUTHORS: Lopez, Jose A.
 AUTHORS: Chung, Dominic W.
 AUTHORS: Fujikawa, Kazuo
 AUTHORS: Haden, Frederick S.
 AUTHORS: Papayannopoulou, Thalia
 AUTHORS: Roth, Gerald J.
 TITLE: Cloning of the alpha chain of human platelet glycoprotein Ib: A transmembrane protein
 TITLE: leucine-rich alpha-2-glycoprotein
 JOURNAL: Proc. Natl. Acad. Sci. U.S.A.
 VOLUME: 84
 PAGES: 5615-5619
 DATE: AUG-1987
 RELEVANT RESIDUES IN SEQ ID NO: 6: FROM 0 TO 610
 PUBLICATION INFORMATION:
 AUTHORS: Zimmerman, Theodore S.
 AUTHORS: Ruggier, Zaverio M.
 AUTHORS: Houghten, Richard A.
 AUTHORS: Vincete, Vincete
 AUTHORS: Mohri, Hiroshi
 TITLE: Proteolytic fragments and synthetic peptides that block the binding of von Willebrand factor to the membrane glycoprotein Ib
 DOCUMENT NUMBER: EP 0 317 278 A2
 FILING DATE: 16-NOV-1988

RESULT 12
 US-08-135-929A-11
 Sequence 11, Application US/08135929A
 Patent No. 5531959
 GENERAL INFORMATION:
 APPLICANT: Miller, Jonathan L.
 APPLICANT: Cunningham, David
 APPLICANT: Lyle, Vicki A.
 APPLICANT: Finch, Clara N.
 TITLE OF INVENTION: Mutations in the Gene Encoding the Alpha Chain of Platelet Glycoprotein Ib
 NUMBER OF SEQUENCES: 11
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Nixon, Haiggrave, Devans & Doyle
 STREET: Clinton Square, P.O. Box 1051
 CITY: Rochester
 STATE: New York
 COUNTRY: USA
 ZIP: 14603
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/135,929A
 FILING DATE: 14-OCT-1993
 CLASSIFICATION: 514
 ATTORNEY/AGENT INFORMATION:
 NAME: Timain, Susan J.
 REGISTRATION NUMBER: 34,103
 REFERENCE/DOCKET NUMBER: 20084/23
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (716) 263-1636
 TELEX: 978450
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 610 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-135-929A-11

Query Match Best Local Similarity 82.2%; Score 37; DB 1; Length 610;
 Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 LTIXLDLSNK 10
 Db 102 LTIVLDVSNR 111

RESULT 13
 US-08-234-265A-11
 Sequence 11, Application US/08234265A
 Patent No. 5634817
 GENERAL INFORMATION:
 APPLICANT: Miller, Jonathan L.

APPLICANT: Cunningham, David
 APPLICANT: Lyle, Vicki A.
 APPLICANT: Finch, Clara N.
 APPLICANT: Pincus, Matthew R.
 TITLE OF INVENTION: Mutations in the Gene Encoding the Chain of Platelet Glycoprotein Ib
 NUMBER OF SEQUENCES: 11
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Nixon, Hargrave, Devans & Doyle
 STREET: Clinton Square, P.O. Box 1051
 CITY: Rochester
 STATE: New York
 COUNTRY: USA
 ZIP: 14603
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/234,265A
 FILING DATE: 28-APR-1994
 CLASSIFICATION: 536
 ATTORNEY/AGENT INFORMATION:
 NAME: Timian, Susan J.
 REGISTRATION NUMBER: 34,103
 REFERENCE/DOCKET NUMBER: 20884/24
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (716) 263-1636
 TELEFAX: (716) 263-1600
 INFORMATION FOR SEQ ID NO: 11:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 610 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-234-265A-11

RESULT 14
 Query Match 82.2%; Score 37; DB 1; Length 610;
 Best Local Similarity 70.0%; Pred. No. 6;
 Matches 7; Conservative 2; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 LTXIDLSENK 10
 Db 102 LTVLDVFSNR 11.

RESULT 15
 Query Match 80.0%; Score 36; DB 1; Length 220;
 Best Local Similarity 60.0%; Pred. No. 3.2;
 Matches 6; Conservative 3; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 LTXLDISFNK 10
 Db 83 ITYLDISYNK 92

RESULT 16
 Sequence 11, Application US/08107755A
 Patent No. 5721352
 GENERAL INFORMATION:
 APPLICANT: Moyer, Richard W.
 APPLICANT: Hall, Richard L.
 APPLICANT: Grudl, Michael E.
 TITLE OF INVENTION: No. 5721352 Entomopoxvirus Expression System
 NUMBER OF SEQUENCES: 40
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: David R. Saliwanchik
 STREET: 2421 N.W. 41st Street, Suite A-1
 CITY: Gainesville
 STATE: Florida
 COUNTRY: U.S.A.
 ZIP: 32606
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/107,755A
 FILING DATE: 19-AUG-1993
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/827,658
 FILING DATE: 30-JAN-1992
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/657,584
 FILING DATE: 19-FEB-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Saliwanchik, David R.
 REGISTRATION NUMBER: 31,794
 REFERENCE/DOCKET NUMBER: UFL14.C2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (904) 372-5800
 TELEFAX: (904) 372-5800

RESULT 14
 Sequence 11, Application US/07991867B
 Patent No. 547681
 GENERAL INFORMATION:
 APPLICANT: Moyer, Richard W.
 APPLICANT: Hall, Richard L.
 APPLICANT: Grudl, Michael E.
 TITLE OF INVENTION: No. 547681 Entomopoxvirus Expression System
 NUMBER OF SEQUENCES: 66
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: David R. Saliwanchik
 STREET: 2421 N.W. 41st Street, Suite A-1
 CITY: Gainesville
 STATE: Florida
 COUNTRY: U.S.A.
 ZIP: 32606
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/107,755A
 FILING DATE: 19-AUG-1993
 CLASSIFICATION: 435
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/827,658
 FILING DATE: 30-JAN-1992
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 07/657,584
 FILING DATE: 19-FEB-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Saliwanchik, David R.
 REGISTRATION NUMBER: 31,794
 REFERENCE/DOCKET NUMBER: UFL14.C2
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (904) 372-5800
 TELEFAX: (904) 372-5800

; INFORMATION FOR SEQ ID NO: 11:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 220 amino acids
; TYPE: amino acid
; MOLECULE TYPE: linear
; US-08-107-755A-11
Query Match 80.0%; Score 36; DB 1; Length 220;
Best Local Similarity 60.0%; Pred. No. 3.2;
Matches 6; Conservative 3; Mismatches 1; Indels 0;
Qy 1 LTXIDLSFNK 10
Db 83 ITYDISYNK 92

Search completed: July 16, 2003, 06:59:04
Job time : 2.84343 secs

Om protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 21.7222 Seconds
(without alignments)
120.278 Million cell updates/sec

Title: US-09-308-140-4

Perfect score: 104

Sequence: 1 SLRUSSTSLSGPVPLFFPQLKX 22

Scoring table: BL0506M2

Gapop 10.0 , Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Maximum Match 0%
Listing first 45 summaries

Database : Published Applications AA:*

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2: /cgn2_6/ptodata/2/pupbaa/PCT_NEW_PUB.pep:*

3: /cgn2_6/ptodata/2/pupbaa/US06_PUBCOMB.pep:*

4: /cgn2_6/ptodata/2/pupbaa/US05_PUBCOMB.pep:*

5: /cgn2_6/ptodata/2/pupbaa/PTCTUS_PUBCOMB.pep:*

6: /cgn2_6/ptodata/2/pupbaa/US07_PUBCOMB.pep:*

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9: /cgn2_6/ptodata/2/pupbaa/US09_NEW_PUB.pep:*

10: /cgn2_6/ptodata/2/pupbaa/US09_PUBCOMB.pep:*

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12: /cgn2_6/ptodata/2/pupbaa/US10_PUBCOMB.pep:*

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14: /cgn2_6/ptodata/2/pupbaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

1 50 48.1 400 9 US-10-101-464A-939 Sequence 939, App

2 50 48.1 843 9 US-10-101-464A-893 Sequence 893, App

3 48.5 998 9 US-10-101-464A-914 Sequence 914, App

4 48 46.2 147 9 US-10-101-464A-701 Sequence 701, App

5 48 46.2 383 9 US-10-101-464A-938 Sequence 898, App

6 48 46.2 828 9 US-10-101-464A-934 Sequence 934, App

7 47 45.2 170 9 US-10-101-464A-369 Sequence 769, App

8 47 45.2 612 8 US-08-910-386A-2 Sequence 812, App

9 47 45.2 623 9 US-10-101-464A-312 Sequence 812, App

10 47 45.2 638 9 US-10-101-464A-74 Sequence 74, App

11 47 45.2 919 9 US-10-101-464A-642 Sequence 642, App

12 47 45.2 998 9 US-10-101-464A-931 Sequence 931, App

13 47 45.2 1025 8 US-08-910-386A-7 Sequence 7, App

14 47 45.2 1134 9 US-10-101-464A-809 Sequence 809, App

15 46 44.2 153 9 US-10-101-464A-84 Sequence 84, App

16 46 44.2 156 9 US-10-101-464A-509 Sequence 509, App

17 46 44.2 247 9 US-10-101-464A-005 Sequence 105, App

18 46 44.2 323 9 US-10-101-464A-764 Sequence 764, App

19 46 44.2 612 9 US-10-101-464A-813 Sequence 813, App

RESULT 1

US-10-101-464A-939

; Sequence 939, Application US/10101464A

; Publication No. US20030046728A1

GENERAL INFORMATION:

APPLICANT: Strabala, Timothy

APPLICANT: Nieuwenhuizen, Nicolaas

APPLICANT: Higgins, Colleen M.

TITLE OF INVENTION: Compositions Isolated from Plant Cells

FILE REFERENCE: 11000_1020C2

CURRENT APPLICATION NUMBER: US/10/101,464A

CURRENT FILING DATE: 2002-03-18

PRIOR APPLICATION NUMBER: 09/704,302

PRIOR FILING DATE: 2000-11-01

PRIOR APPLICATION NUMBER: 60/162,866

PRIOR FILING DATE: 1999-01-12

PRIOR APPLICATION NUMBER: PCT/US00/00724

PRIOR FILING DATE: 2000-01-11

NUMBER OF SEQ ID NOS.: 989

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 939

LENGTH: 400

TYPE: PRT

ORGANISM: Eucalyptus grandis

QY

2 LRLSSTSLSGPVPLFFPQLKX 18

Query Match 48.1%; Score 50; DB: 9; Length 400;

Best Local Similarity 52.4%; Pred. No. 9.4%; Matches 11; Conservative 4; Mismatches 2; Indels 4; Gaps 1;

US-10-101-464A-939

Db 347 VRLSNNNLSGKIPPLDFGKFP 367

RESULT 2

US-10-101-464A-893

; Sequence 893, Application US/10101464A

; Publication No. US20030046728A1

ALIGNMENTS

Sequence 890, App

Sequence 741, App

Sequence 607, App

Sequence 18, App

Sequence 814, App

Sequence 780, App

Sequence 631, App

Sequence 954, App

Sequence 6552, App

Sequence 3731, App

Sequence 714, App

Sequence 895, App

Sequence 5992, App

Sequence 535, App

Sequence 535, App

Sequence 430, App

Sequence 430, App

Sequence 770, App

Sequence 901, App

Sequence 733, App

GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuizen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000-1020c2
 CURRENT APPLICATION NUMBER: US/10/101,464A
 CURRENT FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SEQ ID NO: 893
 LENGTH: 843
 TYPE: PRT
 ORGANISM: Pinus radiata
 FEATURE:
 LOCATION: (1)..(843)
 OTHER INFORMATION: Xaa = Any Amino Acid
 US-10-101-464A-893

Query Match 48.1%; Score 50; DB 9; Length 843;
 Best Local Similarity 47.6%; Pred. No. 21; Mismatches 10; Conservative 4; Indels 7; Gaps 0; Gaps 0;
 Matches 237; Length: 843

RESULT 3
 US-10-101-464A-914
 ; Sequence 914, Application US/10101464A
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Nieuwenhuijen, Nicolaas
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000-1020c2
 CURRENT APPLICATION NUMBER: US/10/101,464A
 CURRENT FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 NUMBER OF SEQ ID NOS: 989
 SEQ ID NO: 914
 LENGTH: 988
 TYPE: PRT
 ORGANISM: Eucalyptus grandis
 US-10-101-464A-914

Query Match 46.6%; Score 48.5; DB 9; Length 998;
 Best Local Similarity 44.5%; Pred. No. 44; Mismatches 12; Conservative 3; Indels 6; Gaps 1; Gaps 1;
 Matches 10; Length: 998

RESULT 4
 US-10-101-464A-701
 ; Sequence 701, Application US/10101464A
 ; Publication No. US20030046728A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Nieuwenhuizen, Nicolaas
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000-1020c2
 CURRENT APPLICATION NUMBER: US/10/101,464A
 CURRENT FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 NUMBER OF SEQ ID NOS: 989
 SEQ ID NO: 701
 LENGTH: 147
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-10-101-464A-701

Query Match 46.2%; Score 48; DB 9; Length 383;
 Best Local Similarity 50.0%; Pred. No. 18; Mismatches 10; Conservative 5; Indels 5; Gaps 0; Gaps 0;
 Matches 114; Length: 383

RESULT 5
 US-10-101-464A-898
 ; Sequence 898, Application US/10101464A
 ; Publication No. US20030046728A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Strabala, Timothy
 ; APPLICANT: Nieuwenhuizen, Nicolaas
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000-1020c2
 CURRENT APPLICATION NUMBER: US/10/101,464A
 CURRENT FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SEQ ID NO: 898
 LENGTH: 383
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-10-101-464A-898

Query Match 46.2%; Score 48; DB 9; Length 383;
 Best Local Similarity 50.0%; Pred. No. 18; Mismatches 10; Conservative 5; Indels 5; Gaps 0; Gaps 0;
 Matches 114; Length: 383

Qy 1 SURLSSTSLSGPVPLFFPQL 20
 Db 295 SLDSLNNNTISGSPISRL 314

RESULT 6
 Sequence 934, Application US/10101464A
 Publication No. US20030046728A1

GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000-1020C2
 CURRENT APPLICATION NUMBER: US/10/101-464A
 CURRENT FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704, 302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228, 986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162, 866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 934
 LENGTH: 828
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-10-101-464A-934

RESULT 7
 Query Match 46.2%; Score 48; DB 9; Length 828;
 Best Local Similarity 52.6%; Pred. No. 42;
 Matches 10; Conservative 4; Mismatches 5; Indels 0; Gaps 0;
 Qy 2 LRUSSSTSLSGPVPLFFPQL 20
 Db 269 LVVSSNNLSGPPIPSEFSRL 287

RESULT 7
 Query Match 46.2%; Score 48; DB 9; Length 828;
 Best Local Similarity 52.6%; Pred. No. 42;
 Matches 10; Conservative 4; Mismatches 5; Indels 0; Gaps 0;
 Qy 2 LRUSSSTSLSGPVPLFFPQL 20
 Db 269 LVVSSNNLSGPPIPSEFSRL 287

RESULT 7
 Query Match 46.2%; Score 48; DB 9; Length 828;
 Best Local Similarity 52.6%; Pred. No. 42;
 Matches 10; Conservative 4; Mismatches 5; Indels 0; Gaps 0;
 Qy 2 LRUSSSTSLSGPVPLFFPQL 20
 Db 269 LVVSSNNLSGPPIPSEFSRL 287

RESULT 8
 Sequence 2, Application US/08910386A
 Publication No. US20020092041A1

GENERAL INFORMATION:
 APPLICANT: Ronald, Pamela C.
 APPLICANT: Wang, Guo-Liang
 APPLICANT: Song, Wen-Yuang
 APPLICANT: Hubert, Scot
 APPLICANT: Richter, Todd
 TITLE OF INVENTION: Procedures and Materials for Conferring Disease Resistance in Plants
 NUMBER OF SEQUENCES: 53
 CORRESPONDENCE ADDRESS:
 ADDRESSE: Townsend and Townsend and Crew LLP
 STREET: Two Embarcadero Center, Eighth Floor
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94111-3834

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent-in Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/910,386A
 FILING DATE: 13-AUG-1997
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bastian, Kevin L.
 REGISTRATION NUMBER: 34,774
 REFERENCE/DOCKET NUMBER: 023070-058950US

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 576-0200
 TELEFAX: (415) 576-0300
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 612 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-910-386A-2

RESULT 9
 Query Match 45.2%; Score 47; DB 9; Length 612;
 Best Local Similarity 64.3%; Pred. No. 43;
 Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 SURLSSTSLSGPV 14
 Db 476 SLDSLNNNTISGSPIP 489

RESULT 9
 Sequence 812, Application US/10101464A
 Publication No. US20030046728A1

GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000-1020C2

CURRENT APPLICATION NUMBER: US/10/101,464A
 CURRENT FILING DATE: 2002-03-11
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-11-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 812
 LENGTH: 623
 TYPE: PRT
 ORGANISM: Eucalyptus grandis
 US-10-101-464A-812

Query Match 45.2%; Score 47; DB 9; Length 623;
 Best Local Similarity 75.9%; Pred. No. 44;
 Matches 10; Conservative 1; Mismatches 2;
 Qy 2 LRLSSTSLSGPV 14
 Db 174 LDLSNNNSLGPV 186

RESULT 10

Sequence 74, Application US/10101464A
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuizen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells Plant Cell Signaling
 TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000.1020C2
 CURRENT APPLICATION NUMBER: US/10/101,464A
 CURRENT FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 74
 LENGTH: 638
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-10-101-464A-74

Query Match 45.2%; Score 47; DB 9; Length 638;
 Best Local Similarity 65.5%; Pred. No. 45;
 Matches 8; Conservative 4; Mismatches 1;
 Qy 2 LRLSSTSLSGPV 14
 Db 164 LRUNNNLSGPV 176

RESULT 11

Query Match 45.2%; Score 47; DB 9; Length 998;
 Best Local Similarity 57.9%; Pred. No. 74;
 Matches 11; Conservative 2; Mismatches 6;
 Qy 2 LRLSSTSLSGPVPLFFPQL 20
 Db 147 LDLSGNNLSGPVPAGRL 165

Query Match 45.2%; Score 47; DB 9; Length 998;
 Best Local Similarity 57.9%; Pred. No. 74;
 Matches 11; Conservative 2; Mismatches 6;
 Qy 2 LRLSSTSLSGPVPLFFPQL 20
 Db 147 LDLSGNNLSGPVPAGRL 165

RESULT 12

Sequence 931, Application US/10101464A
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells Plant Cell Signaling
 TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000.1020C2
 CURRENT APPLICATION NUMBER: US/10/101,454A
 CURRENT FILING DATE: 2002-03-18
 PRIOR APPLICATION NUMBER: 09/704,302
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 09/228,986
 PRIOR FILING DATE: 1999-01-12
 PRIOR APPLICATION NUMBER: 60/162,866
 PRIOR FILING DATE: 1999-11-01
 PRIOR APPLICATION NUMBER: PCT/US00/00724
 PRIOR FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 931
 LENGTH: 998
 TYPE: PRT
 ORGANISM: Pinus radiata
 FEATURE:
 NAME/KEY: VARIANT
 LOCATION: (1); (998)
 OTHER INFORMATION: Xaa = Any Amino Acid
 US-10-101-464A-931

Query Match 45.2%; Score 47; DB 9; Length 998;
 Best Local Similarity 57.9%; Pred. No. 74;
 Matches 11; Conservative 2; Mismatches 6;
 Qy 2 LRLSSTSLSGPVPLFFPQL 20
 Db 147 LDLSGNNLSGPVPAGRL 165

RESULT 13

US-08-910-386A-7
Sequence 7, Application US/08910386A
PATENT NO. US20030093041A1
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Holbert, Scott
APPLICANT: Richter, Todd
TITLE OF INVENTION: Procedures and Materials for Conferring
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/910,386A
FILING DATE: 13-AUG-1997
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 033070-058950US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1025 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-910-386A-7

Query Match 45.2%; Score 47; DB 8; length 1025;
Best Local Similarity 64.3%; Pred. No. 76; 2; Indels 0; Gaps 0;
Matches 9; Conservative 3; Mismatches 2; ORGANISM: Pinus radiata
QY 1 SLRSLSSTSLSGPV 14 US-10-101-464A-84

QY 476 SLGUSLTNNLUSGP 489

RESULT 14
US-10-01-464A-809
Sequence 809, Application US/10101464A
Publication No. US20030046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuijzen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 11000_1020c2
CURRENT APPLICATION NUMBER: US/10/101,464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/162,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 84
LENGTH: 154
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-84

Query Match 44.2%; Score 46; DB 9; length 154;
Best Local Similarity 57.9%; Pred. No. 13; 2; Indels 0; Gaps 0;
Matches 11; Conservative 6; Mismatches 1; ORGANISM: Pinus radiata
QY 2 LRSLSSTSLSGPVPLFFQQL 20 US-10-101-464A-84

QY 124 LPDLSNALSGRPAKFGQL 142

Search completed: July 16, 2003, 06:57:41
Job time : 21.7222 secs

PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: US/10/101,464A
CURRENT FILING DATE: 2002-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-11
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11

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Om protein - protein search, using sw model

Run on:

July 16, 2003, 06:51:00 ; Search time 4.03556 Seconds

(without alignments)
159.609 Million cell updates/sec

Title: US-09-308-140-4

Perfect score: 104

Sequence: 1 SRLSSTSLSGPVPLFFPQLXK 22

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_AA:*

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3: /cgn2_6/podata/1/aa/6A-COMB.pep:*

4: /cgn2_6/podata/1/aa/6B-COMB.pep:*

5: /cgn2_6/podata/1/aa/PCTUS-COMB.pep:*

6: /cgn2_6/podata/1/aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|-------------------|
| 1 | 102 | 98.1 | 22 | 3 | US-08-898-351-4 |
| 2 | 60 | 57.7 | 327 | 1 | US-08-238-163-4 |
| 3 | 58 | 55.8 | 330 | 1 | US-08-238-163-2 |
| 4 | 47 | 45.2 | 638 | 4 | US-09-228-986-74 |
| 5 | 47 | 45.2 | 1012 | 2 | US-08-475-891A-4 |
| 6 | 47 | 45.2 | 1025 | 2 | US-08-567-375-4 |
| 7 | 47 | 45.2 | 1025 | 2 | US-08-587-680A-4 |
| 8 | 46 | 44.2 | 142 | 4 | US-08-945-983-7 |
| 9 | 46 | 44.2 | 154 | 4 | US-09-228-986-84 |
| 10 | 46 | 44.2 | 247 | 4 | US-09-228-986-105 |
| 11 | 46 | 44.2 | 863 | 2 | US-08-666-271-2 |
| 12 | 45 | 43.3 | 277 | 2 | US-08-567-375-16 |
| 13 | 45 | 43.3 | 544 | 2 | US-08-887-680A-25 |
| 14 | 44.5 | 43.3 | 395 | 6 | US-08-591-989-4 |
| 15 | 43 | 41.3 | 204 | 1 | US-08-591-989-4 |
| 16 | 42.5 | 40.9 | 301 | 4 | US-09-353-585-5 |
| 17 | 42.5 | 40.9 | 799 | 4 | US-09-180-439-6 |
| 18 | 42.5 | 40.9 | 968 | 4 | US-09-180-439-3 |
| 19 | 42.5 | 40.9 | 968 | 4 | US-09-180-439-4 |
| 20 | 42.5 | 40.9 | 1016 | 4 | US-09-180-439-8 |
| 21 | 42.5 | 40.9 | 1112 | 4 | US-09-353-585-2 |
| 22 | 42.5 | 40.9 | 1112 | 4 | US-09-353-585-2 |
| 23 | 42 | 40.4 | 1112 | 4 | US-09-353-585-3 |
| 24 | 42 | 40.4 | 1196 | 4 | US-09-228-986-72 |
| 25 | 41.5 | 39.9 | 1023 | 2 | US-08-475-891A-2 |
| 26 | 41.5 | 39.9 | 1023 | 2 | US-08-567-375-2 |
| 27 | 41.5 | 39.9 | 1023 | 2 | US-08-587-680A-2 |

RESULT 1
US-08-898-351-4
; Sequence 4, Application US/08898351A
; Patent No. 6096867

GENERAL INFORMATION:
; APPLICANT: UNILEVER UNITED STATES, INC

; TITLE OF INVENTION: FROZEN FOOD PRODUCT

; FILE REFERENCE: FROZEN FOOD PRODUCT

; CURRENT APPLICATION NUMBER: US/08/898,351A

; CURRENT FILING DATE: 1997-07-22

; NUMBER OF SEQ ID NOS: 5

; SOFTWARE: PatentIn Ver. 2.0

; SBQ ID NO: 4

; LENGTH: 22

; TYPE: PRT
; ORGANISM: CARROT ROOT

; FEATURE: NAME/KEY: UNSURE

; LOCATION: (21)

; OTHER INFORMATION: Xaa represents any amino acid found in plant

; US-08-898-351-4

; OTHER INFORMATION: protein

; QUERY Match

; Best Local Similarity 98.1%; Score 102; DB 3; Length 22;

; Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

; QY 1 SRLSSTSLSGPVPLFFPQLXK 22

; Db 1 SRLSSTSLSGPVPLFFPQLXK 22

; RESULT 2

; US-08-238-163-4

; Sequence 4, Application US/08238163

; Patent No. 5569830

; GENERAL INFORMATION:

; APPLICANT: BENNETT, Alan

; APPLICANT: LABAVITCH, John M.

; APPLICANT: POWELL, Ann

; APPLICANT: STOTZ, Henrik

; TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL

; TITLE OF INVENTION: POLYGLACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE

; NUMBER OF SEQUENCES: 24

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Townsend and Townsend Khourie and Crew

; STREET: Stewart Street Tower, One Market Plaza

; STATE: California

; COUNTRY: US

| Sequence 73, Appli | Sequence 2, Appli | Sequence 9, Appli | Sequence 99, Appli | Sequence 71, Appli | Sequence 2, Appli | Sequence 76, Appli | Sequence 34, Appli | Sequence 106, Appli | Sequence 4, Appli | Sequence 3, Appli | Sequence 10, Appli | Sequence 6, Appli |
|--------------------|-------------------|-------------------|--------------------|--------------------|-------------------|--------------------|--------------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|
| 28 | 41 | 39.4 | 947 | 4 | US-09-228-986-73 | US-08-945-983-2 | US-09-228-986-76 | US-08-946-985-76 | US-09-228-986-76 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 29 | 41 | 39.4 | 1299 | 5 | PCT-US95-0835A-2 | US-08-945-983-9 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-9 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 30 | 40 | 38.5 | 96 | 4 | US-08-945-983-9 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-9 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 31 | 40 | 38.5 | 154 | 4 | US-08-945-983-9 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-9 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 32 | 40 | 38.5 | 630 | 4 | US-08-945-983-9 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-9 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 33 | 40 | 38.5 | 806 | 4 | US-08-945-983-9 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-9 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 34 | 40 | 38.5 | 968 | 4 | US-08-228-986-76 | US-08-945-983-2 | US-09-228-986-76 | US-09-228-986-76 | US-09-228-986-76 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 35 | 39 | 37.5 | 70 | 2 | US-08-91-814B-34 | US-08-945-983-9 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-9 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 36 | 39 | 37.5 | 145 | 4 | US-09-228-986-106 | US-09-944-918-4 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-944-918-4 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 37 | 39 | 37.5 | 199 | 4 | US-09-944-918-4 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-944-918-4 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 38 | 39 | 37.5 | 257 | 2 | US-08-918-216-3 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 39 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 40 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 41 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 42 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 43 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 44 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 45 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 46 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 47 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 48 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 49 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 50 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | US-08-945-983-2 | US-08-461-379A-10 | US-08-462-910B-10 | US-08-463-074B-10 | US-08-465-585C-10 | US-09-353-585-6 | |
| 51 | 39 | 37.5 | 258 | 2 | US-08-463-074B-10 | US-08-945-983-2 | US-09-228-986-99 | US-09-228-986-99 | US-09-228-986-99 | | | | | | | |

ZIP: 94105-1493
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patient in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/238,163
 FILING DATE: 03-MAY-1994
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Bastian, Kevin L.
 REGISTRATION NUMBER: 34,774
 PRACTICE/DOCKET NUMBER: 2307B-540
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 543-9600
 TELEFAX: (415) 543-5043
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 327 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-238-163-4

RESULT 3
 Query Match 57.7%; Score 60; DB 1; Length 327;
 Best Local Similarity 63.2%; Pred. No. 0.055; Matches 12; Conservative 3; Mismatches 4; Indels 0; Gaps 0; SEQ ID NO: 120
 Db 120 LRUSSTSLSGPVLPFLFPQL 138

US-08-238-163-2
 Sequence 2, Application US/08238163
 Patent No. 5559830
 GENERAL INFORMATION:
 APPLICANT: BENNETT, Alan
 APPLICANT: LABAVITCH, John M.
 APPLICANT: POWELL, Ann
 APPLICANT: STOTZ, Henrik
 TITLE OF INVENTION: PLANT INHIBITORS OF FUNGAL DISEASE
 TITLE OF INVENTION: POLYGALACTURONASES AND THEIR USE TO CONTROL FUNGAL DISEASE
 NUMBER OF SEQUENCES: 24
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend Khourie and Crew
 STREET: Stewart Street Tower, One Market Plaza
 CITY: San Francisco
 STATE: California
 COUNTRY: US
 ZIP: 94105-1493
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patient in Release #1.0, Version #1.25
 APPLICATION NUMBER: US/08/238,163
 FILING DATE: 03-MAY-1994
 CLASSIFICATION: 800
 ATTORNEY/AGENT INFORMATION:
 NAME: Bastian, Kevin L.
 REGISTRATION NUMBER: 34,774
 REFERENCE/DOCKET NUMBER: 2307E-540
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 543-9600
 TELEFAX: (415) 543-5043
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 330 amino acids
 TYPE: amino acid

RESULT 4
 Query Match 55.8%; Score 58; DB 1; Length 330;
 Best Local Similarity 70.0%; Pred. No. 0.12; Matches 14; Conservative 1; Mismatches 5; Indels 0; Gaps 0; SEQ ID NO: 1
 Qy 1 SIRLSSTSLSGPVLPFLFPQL 20
 Db 123 SURLSWTNLNSGSVPDFLSQL 142

US-09-228-986-74
 Sequence 74, Application US/09228986
 Patent No. 6359198
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuizen, Niels
 TITLE OF INVENTION: Compositions Isolated from Plant Cells
 TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signalling
 FILE REFERENCE: 1100011020
 CURRENT APPLICATION NUMBER: US/09/228,986
 CURRENT FILING DATE: 1999-01-12
 NUMBER OF SEQ ID NOS: 130
 SOFTWARE: FASTSEQ for Windows Version 3.0
 SEQ ID NO: 74
 LENGTH: 638
 TYPE: PRT
 ORGANISM: Pinus radiata
 US-09-228-986-74

RESULT 5
 Query Match 45.2%; Score 47; DB 4; Length 638;
 Best Local Similarity 61.5%; Pred. No. 14; Matches 8; Conservative 4; Mismatches 1; Indels 0; Gaps 0; SEQ ID NO: 2
 Qy 2 IRLSSTSLSGPV 14
 Db 164 LRLNNNNLSGPPIP 176

US-08-475-891A4
 Sequence 4, Application US/08475891A
 Patent No. 5859319
 GENERAL INFORMATION:
 APPLICANT: Ronald, Pamela C.
 APPLICANT: Wang, Guo-Liang
 APPLICANT: Song, Wen-Yuang
 TITLE OF INVENTION: Procedures and Materials for Conferring
 TITLE OF INVENTION: Disease Resistance in Plants
 NUMBER OF SEQUENCES: 15
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend and Crew LLP
 STREET: Two Embarcadero Center, Eighth Floor
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94111-3834
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patient in Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/475,891A
 FILING DATE: 06-JUN-1995
 CLASSIFICATION: 800
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/373,375
 FILING DATE: 17-JAN-1995
 ATTORNEY/AGENT INFORMATION:

NAME: Bastian, Kevin L.
 REGISTRATION NUMBER: 34,774
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 576-0200
 TELEFAX: (415) 576-0300
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1025 amino acids
 TYPE: amino acid
 TOPOLogy: linear
 MOLECULE TYPE: protein
 FEATURE:
 NAME/KEY: Protein
 LOCATION: 1..1012
 OTHER INFORMATION: /note= "Xa21 Xanthomonas spp.
 OTHER INFORMATION: disease resistance Polypeptide RRK-B
 US-08-475-891A-4

Query Match Similarity 45.2%; Score 47; DB 2; Length 1012;
 Best Local Similarity 64.3%; Pred. No. 23; Mismatches 9;
 Matches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 SRLRSSTSLSGPV 14
 Db 476 SLGLSTNNLNSGPIP 489

RESULT 6

US-08-567-375-4
 Sequence 4, Application US/08567375
 ; Sequence 4, Application US/08567375
 ; Patent No. 595485
 ; GENERAL INFORMATION:
 ; APPLICANT: Ronald, Pamela C.
 ; APPLICANT: Wang, Guo-Liang
 ; APPLICANT: Song, Wen-Yuang
 ; APPLICANT: Szabo, Veronique
 ; APPLICANT: Wang, Guo-Liang
 ; APPLICANT: Song, Wen-Yuang
 ; APPLICANT: Szabo, Veronique
 TITLE OF INVENTION: Procedures and Materials for Conferring
 NUMBER OF SEQUENCES: 16
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend and Crew LLP
 STREET: Two Embarcadero Center, Eighth Floor
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94111-3834

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/567,375
 FILING DATE: 04-DEC-1995
 CLASSIFICATION: 800

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/004,645
 FILING DATE: 29-SEP-1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/475,891
 FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/373,375
 FILING DATE: 17-JAN-1995

ATTORNEY/AGENT INFORMATION:
 NAME: Bastian, Kevin L.
 REGISTRATION NUMBER: 34,774
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 576-0200
 TELEFAX: (415) 576-0300
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1025 amino acids
 TYPE: amino acid
 TOPOLogy: linear
 MOLECULE TYPE: protein
 FEATURE:
 NAME/KEY: Protein
 LOCATION: 1..1012
 OTHER INFORMATION: /note= "Xa21 Xanthomonas spp.
 OTHER INFORMATION: disease resistance Polypeptide RRK-B
 US-08-567-375-4

Query Match Similarity 45.2%; Score 47; DB 2; Length 1025;
 Best Local Similarity 64.3%; Pred. No. 24; Mismatches 9; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 SRLRSSTSLSGPV 14
 Db 476 SLGLSTNNLNSGPIP 489

RESULT 7

US-08-587-680A-4
 Sequence 4, Application US/08587680A
 ; Sequence 4, Application US/08587680A
 ; Patent No. 597434
 ; GENERAL INFORMATION:
 ; APPLICANT: Ronald, Pamela C.
 ; APPLICANT: Wang, Guo-Liang
 ; APPLICANT: Song, Wen-Yuang
 ; APPLICANT: Szabo, Veronique
 ; APPLICANT: Wang, Guo-Liang
 ; APPLICANT: Song, Wen-Yuang
 ; APPLICANT: Szabo, Veronique
 TITLE OF INVENTION: Procedures and Materials for Conferring
 NUMBER OF SEQUENCES: 27
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Townsend and Townsend and Crew LLP
 STREET: Two Embarcadero Center, Eighth Floor
 CITY: San Francisco
 STATE: California
 COUNTRY: USA
 ZIP: 94111-3834

COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/587,680A
 FILING DATE: 17-JAN-1996
 CLASSIFICATION: 800

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/373,375
 FILING DATE: 17-JAN-1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/475,891
 FILING DATE: 07-JUN-1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 60/004,645
 FILING DATE: 29-SEP-1995

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/567,375
 FILING DATE: 04-DEC-1995

ATTORNEY/AGENT INFORMATION:
 NAME: Bastian, Kevin L.
 REGISTRATION NUMBER: 34,774
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (415) 576-0200
 TELEFAX: (415) 576-0300
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1025 amino acids
 TYPE: amino acid
 TOPOLogy: linear
 MOLECULE TYPE: protein
 FEATURE:
 NAME/KEY: Protein
 LOCATION: 1..1012
 OTHER INFORMATION: /note= "Xa21 Xanthomonas spp.
 OTHER INFORMATION: disease resistance Polypeptide RRK-B
 US-08-587-680A-4

RESULT 8
Sequence 7, Application US/08945983
PATENT NO. 6235527
GENERAL INFORMATION:
APPLICANT: Thomas, Colwyn M
APPLICANT: Ballint-Kurti, Peter J
APPLICANT: Jones, David A
APPLICANT: Jones, Jonathan DG
TITLE OF INVENTION: Plant pathogen resistance genes and uses
TITLE OF INVENTION: thereof
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon & Vanderhye PC
STREET: 8th Floor, 1100 No. 6225527th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: USA
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/945,983
FILING DATE: 12-NOV-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB96/01155
FILING DATE: 13-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9509575.8
FILING DATE: 11-MAY-1995
ATTORNEY/AGENT INFORMATION:
NAME: Ms Mary J Wilson
REGISTRATION NUMBER: 32,955
REFERENCE/DOCKET NUMBER: 620-27
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 142 amino acids
TYPE: amino acid
TOPOLOGY: linear

RESULT 9
Sequence 7, Application US/08945983
PATENT NO. 6235527
GENERAL INFORMATION:
APPLICANT: Thomas, Colwyn M
APPLICANT: Ballint-Kurti, Peter J
APPLICANT: Jones, David A
APPLICANT: Jones, Jonathan DG
TITLE OF INVENTION: Plant pathogen resistance genes and uses
TITLE OF INVENTION: thereof
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon & Vanderhye PC
STREET: 8th Floor, 1100 No. 6225527th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: USA
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

RESULT 10
US-09-228-986-105
Query Match 44.2%; Score 46; DB 4; Length 154;
Best Local Similarity 57.9%; Pred. No. 3; 9; Mismatches 6; Indels 0; Gaps 0;
Matches 11; Conservative 2; Mismatches 6; Indels 0; Gaps 0;
; Patent No. 6339198
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuijzen, Niels
TITLE OF INVENTION: Compositions Isolated from Plant Cells and their Use in the Modification of Plant Cell Signalling
FILE REFERENCE: 110001020
CURRENT APPLICATION NUMBER: US/09/228, 986
CURRENT FILING DATE: 1999-01-12
NUMBER OF SEQ ID NOS: 130
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 105
LENGTH: 247
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-09-228-986-105

RESULT 11
US-08-666-271-2
Query Match 44.2%; Score 46; DB 4; Length 247;
Best Local Similarity 59.2%; Pred. No. 6; 7; Mismatches 2; Indels 0; Gaps 0;
Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
; Patent No. 592000
GENERAL INFORMATION:
APPLICANT: JONES, JONATHAN D
APPLICANT: HAMMOND-KOSICK, KIM E
APPLICANT: THOMAS, COLWYN M
APPLICANT: JONES, DAVID A
APPLICANT: JONES, JONATHAN D
TITLE OF INVENTION: PLANT PATHOGEN RESISTANCE GENES AND USES
TITLE OF INVENTION: THEREOF
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon & Vanderhye P.C.
STREET: 1100 NORTH GLEBE ROAD, 8TH FLOOR
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22201
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/666,271
 FILING DATE: 19-SEP-1996
 CLASSIFICATION: 800
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: PCT/GB94/02812
 FILING DATE: 23-DEC-1994
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: GB 9326428.1
 FILING DATE: 24-DEC-1993
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: GB 9409363.0
 FILING DATE: 11-MAY-1994
 ATTORNEY/AGENT INFORMATION:
 NAME: SADOFF, B. J.
 REGISTRATION NUMBER: 34,774
 REFERENCE/DOCKET NUMBER: 023070-058930
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (703) 816-0911
 TELEFAX: (703) 816-4100
 INFORMATION FOR SEQ ID NO: 2:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 863 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-666-271-2

Query Match
 Best Local Similarity 44.2%; Score 46; DB 2; Length 863;
 Matches 9; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
 Qy 2 LRISSTSISGPPV 14
 Db 364 LDLSQNLQSGPIPQVQI 376

RESULT 12
 US-08-567-375-16
 Sequence 16, Application US/08567375
 ; Sequence 16, Application US/08567375
 ; Patent No. 5932485
 ; GENERAL INFORMATION:
 ; APPLICANT: Ronald, Pamela C.
 ; ADDRESS: Townsend and Townsend and Crew LLP
 ; STREET: Two Embarcadero Center, Eighth Floor
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94111-3834
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/567,375
 ; FILING DATE: 04-DEC-1995
 ; CLASSIFICATION: 800
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 60/004,645
 ; FILING DATE: 29-SEP-1995
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/475,891
 ; FILING DATE: 07-JUN-1995
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/567,375
 ; FILING DATE: 04-DEC-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Bascian, Kevin L.
 ; REGISTRATION NUMBER: 34,774
 ; REFERENCE/DOCKET NUMBER: 023070-058940US
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (415) 576-0200
 ; TELEFAX: (415) 576-0300
 ; INFORMATION FOR SEQ ID NO: 16:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 277 amino acids
 ; TYPE: amino acid
 ; STRANDEDNESS:
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 US-08-567-375-16

Query Match
 Best Local Similarity 43.3%; Score 45; DB 2; Length 277;
 Matches 9; Conservative 3; Mismatches 7; Indels 0; Gaps 0;
 Qy 2 LRISSTSISGPPVLFPPOL 20
 Db 75 LDLSQNLQSGPIPQVQI 93

RESULT 13
 US-08-587-680A-25
 Sequence 25, Application US/08587680A
 ; Sequence 25, Application US/08587680A
 ; Patent No. 5977434
 ; GENERAL INFORMATION:
 ; APPLICANT: Ronald, Pamela C.
 ; ADDRESS: Townsend and Townsend and Crew LLP
 ; STREET: Two Embarcadero Center, Eighth Floor
 ; CITY: San Francisco
 ; STATE: California
 ; COUNTRY: USA
 ; ZIP: 94111-3834
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: FLOPPY disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/587,680A
 ; FILING DATE: 17-JAN-1996
 ; CLASSIFICATION: 800
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/373,375
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/475,891
 ; FILING DATE: 07-JAN-1995
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 60/004,645
 ; FILING DATE: 29-SEP-1995
 ; PRIORITY APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/567,375
 ; FILING DATE: 04-DEC-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Bascian, Kevin L.
 ; REGISTRATION NUMBER: 34,774
 ; REFERENCE/DOCKET NUMBER: 023070-058940US
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300
 INFORMATION FOR SEQ ID NO: 25:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 544 amino acids
 TYPE: amino acid
 STRANDEDNESS:
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 FEATURE:
 NAME/KEY: Protein
 LOCATION: 1..544
 OTHER INFORMATION: /note= "Tomato Receptor Kinase 1 (TRK1)"
 US-08-587-680A-25

Query Match 43.3%; Score 45; DB 2; Length 544;
 Best_Local_Similarity 47.4%; Pred. No. 24;
 Matches 9; Conservative 3; Mismatches 7; Indels 0; Gaps 0;
 QY 2 LRLSSTSLSGPGVPLFFPQL 20
 Db 72 LDLSQNLQSLGPIPVQIAQI 90

RESULT 14
 5196194-18
 ;Patent No. 5196194
 ;APPLICANT: RUTTER, WILLIAM J; GOODMAN, HOWARD M.
 ;TITLE OF INVENTION: VACCINES CONTAINING HEPATITIS B S-PROTEIN
 ;NUMBER OF SEQUENCES: 21
 ;CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/07/679, 621
 ; FILING DATE: 7-DEC-1994
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: 513, 055
 ; FILING DATE: 12-JUL-1983
 ; APPLICATION NUMBER: 107, 267
 ; FILING DATE: 21-DEC-1979
 ; APPLICATION NUMBER: 41, 909
 ; FILING DATE: 24-MAY-1979
 ;SEQ ID NO:18:
 ; LENGTH: 395
 ; 5196194-18

Query Match 42.8%; Score 44.5; DB 6; Length 395;
 Best_Local_Similarity 64.7%; Pred. No. 20;
 Matches 11; Conservative 1; Mismatches 4; Indels 1; Gaps 1;
 QY 3 RLSSRLSLSGPVPLFFP 18
 Db 8 RKGGTNLSPVPLGFFP 24

RESULT 15
 US-08-591-989-4
 Sequence 4, Application US/08591989 |
 Patent No. 579521
 GENERAL INFORMATION:
 APPLICANT: Ross S. Rabin, Sumedha Jayasena
 APPLICANT: and Larry Gold
 TITLE OF INVENTION: HIGH AFFINITY NUCLEIC
 ACID LIGANDS OF ICP4
 NUMBER OF SEQUENCES: 87
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Swanson & Bratschun, L.L.C.
 STREET: 8400 East Prentice Avenue, Suite #200
 CITY: Englewood
 STATE: Colorado
 COUNTRY: USA
 ZIP: 80111
 COMPUTER REARABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch, 1.40 MB
 COMPUTER: IBM COMPATIBLE

OPERATING SYSTEM: MS-DOS
 SOFTWARE: WORD PERFECT 6.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/591,989
 FILING DATE:
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Barry J Swanson
 REGISTRATION NUMBER: 33, 215
 REFERENCE/DOCKET NUMBER: NEX 49
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (303) 793-3333
 TELEFAX: (303) 793-3433
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 204
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-591-989-4

Query Match 41.3%; Score 43; DB 1; Length 204;
 Best_Local_Similarity 54.5%; Pred. No. 16;
 Matches 6; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
 QY 10 SGPVPLFFPQL 20
 Db 79 AGGPVVPFIPEM 89

Search completed: July 16, 2003, 06:59:05
 Job time : 5.05556 secs

OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 15.798 Seconds
(without alignments)

120.278 Million cell updates/sec

Title: US-09-308-140-5

Perfect score: 67

Sequence: 1 XXEVIFXQLSILPNLK 16

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 451899 seqs, 118759770 residues

Total number of hits satisfying chosen parameters: 451899

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA,*

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2: /cgn2_6/ptodata/2/pubpea/PCT NEW PUB pep: *
3: /cgn2_6/ptodata/2/pubpea/US06 NEW PUBCOMB pep: *
4: /cgn2_6/ptodata/2/pubpea/PCTUS PUBCOMB.pep: *
5: /cgn2_6/ptodata/2/pubpea/PCTUS PUBCOMB.pep: *
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9: /cgn2_6/ptodata/2/pubpea/US09 NEW PUB pep: *
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11: /cgn2_6/ptodata/2/pubpea/US10 NEW PUB.pep: *
12: /cgn2_6/ptodata/2/pubpaa/US10 PUBCOMB.pep: *
13: /cgn2_6/ptodata/2/pubpaa/US10 NEW PUB.pep: *
14: /cgn2_6/ptodata/2/pubpaa/US10 PUBCOMB.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query | Match | Length | DB | ID | Description |
|------------|-------|-------|-------|--------|---------------------|----|--------------------|
| 1 | 49 | 73.1 | 942 | 9 | US-10-101-464A-911 | | Sequence 911, App |
| 2 | 41 | 61.2 | 159 | 9 | US-10-101-464A-597 | | Sequence 597, App |
| 3 | 41 | 61.2 | 167 | 9 | US-10-101-464A-914 | | Sequence 715, App |
| 4 | 41 | 61.2 | 370 | 9 | US-10-101-464A-914 | | Sequence 944, App |
| 5 | 41 | 61.2 | 894 | 9 | US-09-754-853A-1099 | | Sequence 1099, App |
| 6 | 41 | 61.2 | 894 | 9 | US-09-754-853A-1116 | | Sequence 1116, App |
| 7 | 41 | 61.2 | 894 | 9 | US-09-754-853A-1117 | | Sequence 1117, App |
| 8 | 41 | 61.2 | 894 | 9 | US-09-754-853A-1118 | | Sequence 1118, App |
| 9 | 41 | 61.2 | 894 | 9 | US-09-754-853A-1119 | | Sequence 1119, App |
| 10 | 39 | 58.2 | 304 | 9 | US-10-101-464A-917 | | Sequence 717, App |
| 11 | 39 | 58.2 | 516 | 9 | US-10-101-464A-936 | | Sequence 916, App |
| 12 | 38 | 56.7 | 711 | 9 | US-10-101-464A-979 | | Sequence 79, App |
| 13 | 38 | 56.7 | 977 | 10 | US-09-949-192-23 | | Sequence 23, App |
| 14 | 38 | 56.7 | 1004 | 9 | US-09-738-626-4210 | | Sequence 4210, App |
| 15 | 37 | 55.2 | 156 | 9 | US-10-101-464A-740 | | Sequence 740, App |
| 16 | 37 | 55.2 | 193 | 9 | US-09-798-692-2458 | | Sequence 2458, App |
| 17 | 37 | 55.2 | 193 | 9 | US-10-101-464A-2458 | | Sequence 751, App |
| 18 | 37 | 55.2 | 224 | 9 | US-10-101-464A-751 | | Sequence 751, App |
| 19 | 37 | 55.2 | 635 | 9 | US-09-990-385-1 | | Sequence 1, Appli |

ALIGNMENTS

RESULT 1
US-10-101-464A-911

; Sequence 911, Application US/10101464A
; Publication No. US2003004672A1

; GENERAL INFORMATION:
; APPLICANT: Serabala, Timothy
; APPLICANT: Nieuwenhuijzen, Nicolaas
; APPLICANT: Higgins, Colleen M.

; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; and Their Use in the Modification of Plant Cell Signaling
FILE REFERENCE: 1100110202C
CURRENT APPLICATION NUMBER: US/10/101,464A
CURRENT FILING DATE: 2002-03-18
PRIORITY APPLICATION NUMBER: 09/704,302
PRIORITY FILING DATE: 2000-11-01
PRIORITY APPLICATION NUMBER: PCT/US00/00724
PRIORITY FILING DATE: 1999-11-01
PRIORITY APPLICATION NUMBER: 60/162,866
PRIORITY FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989

; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 911
; LENGTH: 942
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-10-101-464A-911

Query Match 73.1%; Score 49; DB 9; Length 942;
Best Local Similarity 75.0%; Pred. No. 1.5;
Matches 9; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

Qy 5 IPXQLSTLPNJK 16
Db 415 IPSELTLPNJK 426

RESULT 2
US-10-101-464A-597
; Sequence 597, Application US/10101464A
; Publication No. US20030046728A1

US-10-101-464A-944
; Sequence 944, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: PCT/US00/00724
; PRIOR FILING DATE: 2000-01-11
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 597
; LENGTH: 159
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
; US-10-101-464A-597

Query Match 61.2%; Score 41; DB 9; Length 159;
Best Local Similarity 65.7%; Pred. No. 5.3; Mismatches 2; Indels 0; Gaps 0;
Matches 8; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 5 IPXQLSLSPNLK 16
Db 85 IPSELTLSNLK 96

RESULT 3
US-10-101-464A-715
; Sequence 715, Application US/10101464A
; Publication No. US20030046728A1
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Nicolaas
; APPLICANT: Higgins, Colleen M.
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; and Their Use in the Modification of Plant Cell Signaling
; FILE REFERENCE: 11000.1020c2
; CURRENT APPLICATION NUMBER: US/10/101,464A
; PRIOR FILING DATE: 2002-03-18
; PRIOR APPLICATION NUMBER: 09/704,302
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 989
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 944
; LENGTH: 370
; TYPE: PRT
; ORGANISM: Pinus radiata
; US-10-101-464A-944

Query Match 61.2%; Score 41; DB 9; Length 370;
Best Local Similarity 65.7%; Pred. No. 14; Mismatches 1; Indels 3; Gaps 0;
Matches 8; Conservative 1; Mismatches 1; Indels 3; Gaps 0;

Qy 5 IPXQLSLSPNLK 16
Db 166 IPSTLSQLPNLK 177

RESULT 5
US-09-754-853A-1099
; Sequence 1099, Application US/09754853A
; Publication No. US2003005491A1
; GENERAL INFORMATION:
; APPLICANT: Huge, Brian M.
; APPLICANT: Parnell, Laurence D.
; APPLICANT: Parsons, Jeremy D.
; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
; Title of Invention: Soybean Cyst Nematode Resistance
; FILE REFERENCE: 38-10158101B
; CURRENT APPLICATION NUMBER: US/09/754,853A
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 60/174,880
; PRIOR FILING DATE: 2000-01-07
; NUMBER OF SEQ ID NOS: 1119
; SEQ ID NO: 1099
; LENGTH: 894
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE: OTHER INFORMATION: Clone ID: 318013_region_A3
; OTHER INFORMATION: US-09-754-853A-1099

Query Match 61.2%; Score 41; DB 9; Length 894;
Best Local Similarity 53.8%; Pred. No. 39; Mismatches 7; Indels 2; Gaps 0;
Matches 8; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 4 VIPXQLSLSPNLK 16
Db 241 VWPASLTSLPSLK 253

RESULT 6
US-09-754-853A-1116

Sequence 1116, Application US/09754853A
 ; GENERAL INFORMATION:
 ; APPLICANT: Hauge, Brian M.
 ; APPLICANT: Parnell, Laurence D.
 ; APPLICANT: Parsons, Jeremy D.
 ; APPLICANT: Wang, Ming Li
 ; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
 ; TITLE OF INVENTION: Soybean Cyst Nematode Resistance
 ; FILE REFERENCE: 38-10(15810)B
 ; CURRENT APPLICATION NUMBER: US/09/754,853A
 ; CURRENT FILING DATE: 2001-01-05
 ; PRIORITY FILING DATE: 2000-01-07
 ; NUMBER OF SEQ ID NOS: 1119
 ; SEQ ID NO 1116
 ; LENGTH: 894
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: rhg4_a3244_amplicon
 ; US-09-754-853A-1116

Query Match 61.2%; Score 41; DB 9; Length 894;
 Best Local Similarity 53.8%; Pred. No. 39;
 Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
 Qy 4 VIPXQSLTLPNLK 16
 Db 241 VVPASLTSPLSLK 253

RESULT 7
 US-09-754-853A-1117
 ; Sequence 1117, Application US/09754853A
 ; Publication No. US20030005491A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Haug, Brian M.
 ; APPLICANT: Parnell, Laurence D.
 ; APPLICANT: Parsons, Jeremy D.
 ; APPLICANT: Wang, Ming Li
 ; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
 ; TITLE OF INVENTION: Soybean Cyst Nematode Resistance
 ; FILE REFERENCE: 38-10(15810)B
 ; CURRENT APPLICATION NUMBER: US/09/754,853A
 ; CURRENT FILING DATE: 2001-01-05
 ; PRIORITY FILING DATE: 2000-01-07
 ; NUMBER OF SEQ ID NOS: 1119
 ; SEQ ID NO 1117
 ; LENGTH: 894
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: rhg4_minsoy_amplicon
 ; US-09-754-853A-1117

Query Match 61.2%; Score 41; DB 9; length 894;
 Best Local Similarity 53.8%; Pred. No. 39;
 Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
 Qy 4 VIPXQSLTLPNLK 16
 Db 241 VVPASLTSPLSLK 253

RESULT 8
 US-09-754-853A-1118
 ; Sequence 1118, Application US/09754853A
 ; Publication No. US20030005491A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hauge, Brian M.
 ; APPLICANT: Parnell, Laurence D.
 ; APPLICANT: Wang, Ming Li
 ; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
 ; TITLE OF INVENTION: Soybean Cyst Nematode Resistance
 ; FILE REFERENCE: 38-10(15810)B
 ; CURRENT APPLICATION NUMBER: US/09/754,853A
 ; CURRENT FILING DATE: 2001-01-05
 ; PRIORITY FILING DATE: 2000-01-07
 ; NUMBER OF SEQ ID NOS: 1119
 ; SEQ ID NO 1118
 ; LENGTH: 894
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: rhg4_jack_amplicon
 ; US-09-754-853A-1118

Query Match 61.2%; Score 41; DB 9; Length 894;
 Best Local Similarity 53.8%; Pred. No. 39;
 Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
 Qy 4 VIPXQSLTLPNLK 16
 Db 241 VVPASLTSPLSLK 253

RESULT 9
 US-09-754-853A-1119
 ; Sequence 1119, Application US/09754853A
 ; Publication No. US20030005491A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hauge, Brian M.
 ; APPLICANT: Parnell, Laurence D.
 ; APPLICANT: Parsons, Jeremy D.
 ; APPLICANT: Wang, Ming Li
 ; TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
 ; TITLE OF INVENTION: Soybean Cyst Nematode Resistance
 ; FILE REFERENCE: 38-10(15810)B
 ; CURRENT APPLICATION NUMBER: US/09/754,853A
 ; CURRENT FILING DATE: 2001-01-05
 ; PRIORITY FILING DATE: 2000-01-07
 ; NUMBER OF SEQ ID NOS: 1119
 ; SEQ ID NO 1119
 ; LENGTH: 894
 ; TYPE: PRT
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: rhg4_peking_amplicon
 ; US-09-754-853A-1119

Query Match 61.2%; Score 41; DB 9; Length 894;
 Best Local Similarity 53.8%; Pred. No. 39;
 Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
 Qy 4 VIPXQSLTLPNLK 16
 Db 241 VVPASLTSPLSLK 253

RESULT 10
 US-10-101-464A-717
 ; Sequence 717, Application US/10101464A
 ; Publication No. US2003046728A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Srabala, Timothy
 ; APPLICANT: Nieuwenhuijzen, Nicolaas
 ; APPLICANT: Higgins, Colleen M.
 ; TITLE OF INVENTION: Compositions Isolated from Plant Cells
 ; TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 ; FILE REFERENCE: 1100-10202
 ; CURRENT APPLICATION NUMBER: US/10/101,464A

CURRENT APPLICATION NUMBER: US/10/101,464A

CURRENT FILING DATE: 2002-03-18
 PRIORITY APPLICATION NUMBER: 09/704,302
 PRIORITY FILING DATE: 2000-11-01
 PRIORITY APPLICATION NUMBER: 09/228,986
 PRIORITY FILING DATE: 1999-01-12
 PRIORITY APPLICATION NUMBER: 60/162,866
 PRIORITY FILING DATE: 1999-11-01
 PRIORITY APPLICATION NUMBER: PCT/US00/00724
 PRIORITY FILING DATE: 2000-01-11
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 717
 LENGTH: 304
 TYPE: PRT
 ORGANISM: *Pinus radiata*
 US-10-101-464A-717

Query Match Best Local Similarity 58.2%; Score 39; DB 9; Length 304; Matches 7; Conservative 2; Mismatches 2; Indels 0; Gaps 0; Qy 4 VIPXQSLTPN 14 Db 101 IIPKWLSTMPN 111

RESULT 11
 Sequence 936, Application US/10101464A
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuijen, Nicolaas
 TITLE OF INVENTION: Compositions Isolated from Plant Cells and Their Use in the Modification of Plant Cell Signaling
 TITLE OF INVENTION: and Their Use in the Modification of Plant Cell Signaling
 FILE REFERENCE: 11000-1020C2
 CURRENT APPLICATION NUMBER: US/10/101,464A
 CURRENT FILING DATE: 2002-03-18
 PRIORITY APPLICATION NUMBER: 09/704,302
 PRIORITY FILING DATE: 2000-11-01
 PRIORITY APPLICATION NUMBER: 09/228,986
 PRIORITY FILING DATE: 1999-01-12
 PRIORITY APPLICATION NUMBER: 60/162,866
 PRIORITY FILING DATE: 1999-11-01
 PRIORITY APPLICATION NUMBER: PCT/US00/00724
 NUMBER OF SEQ ID NOS: 989
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 936
 LENGTH: 516
 TYPE: PRT
 ORGANISM: *Eucalyptus grandis*
 US-10-101-464A-936

Query Match Best Local Similarity 58.2%; Score 39; DB 9; Length 516; Matches 7; Conservative 2; Mismatches 3; Indels 0; Gaps 0; Qy 5 IPXQSLTPN 16 Db 246 IPNELANLTPN 256

RESULT 13
 Sequence 949-192-23
 Publication No. US20030142292A1
 GENERAL INFORMATION:
 APPLICANT: Parham, Christi L.
 APPLICANT: Gorman, Daniel L.
 APPLICANT: Kurata, Hirotaku
 APPLICANT: Arai, Naoko
 APPLICANT: Sana, Theodore R.
 APPLICANT: Mattson, Jeanine D.
 APPLICANT: Murphy, Brin E.
 APPLICANT: Savkoor, Chetan
 APPLICANT: Grein, Jeffrey
 APPLICANT: Smith, Kathleen M.
 APPLICANT: McClanahan, Terrill K.
 TITLE OF INVENTION: MAMMALIAN GENES; RELATED REAGENTS AND METHODS
 FILE REFERENCE: DX01169K
 CURRENT APPLICATION NUMBER: US/09/949,192
 CURRENT FILING DATE: 2001-09-07
 PRIORITY APPLICATION NUMBER: 60/231,267
 PRIORITY FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 53
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 23
 LENGTH: 977
 TYPE: PRT
 ORGANISM: *Homo sapiens*
 US-09-949-192-23

Query Match Best Local Similarity 56.7%; Score 38; DB 10; Length 977; Matches 7; Conservative 2; Mismatches 5; Indels 0; Gaps 0; Qy 3 EYIPXQSLTPN 16 Db 494 EYQPAAEFLMPNPK 507

RESULT 14
 Sequence 949-192-23
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuijen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells

RESULT 12
 Sequence 10-101-464A-79
 Publication No. US20030046728A1
 GENERAL INFORMATION:
 APPLICANT: Strabala, Timothy
 APPLICANT: Nieuwenhuijen, Nicolaas
 APPLICANT: Higgins, Colleen M.
 TITLE OF INVENTION: Compositions Isolated from Plant Cells

Search completed: July 16, 2003, 06:57:42
Job time : 16.798 secs

```

APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIJI
APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, NAOKO
APPLICANT: SENOU, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OZKII, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIORITY APPLICATION NUMBER: JP 99/377484
PRIORITY FILING DATE: 1999-12-16
PRIORITY APPLICATION NUMBER: JP 00/159162
PRIORITY FILING DATE: 2000-04-07
PRIORITY APPLICATION NUMBER: JP 00/289988
PRIORITY FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn Ver. 3.0
SEQ ID NO 4210
LENGTH: 1004
TYPE: PRT
ORGANISM: Corynebacterium glutamicum
US-09-738,626-4210

Query Match      56.7% Score 38:
Best Local Similarity 88.9% Pred. No. 1
Matches 8; Conservative 0; Mismatch(es)
Oy      8 QSLTPNLK 16
Db      566 QSLTPRLK 574

RESULT 15
US-10-101-464A-740
Sequence 740, Application US/10101464A
Publication No. US2003003046728A1
GENERAL INFORMATION:
APPLICANT: Strabala, Timothy
APPLICANT: Nieuwenhuizen, Nicolaas
APPLICANT: Higgins, Colleen M.
TITLE OF INVENTION: Compositions Isolated from a Microorganism and Their Use in the Treatment of Infection
FILE REFERENCE: 11000-1020C2
CURRENT APPLICATION NUMBER: US/10/101-464A
CURRENT FILING DATE: 2003-03-18
PRIOR APPLICATION NUMBER: 09/704,302
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 09/228,986
PRIOR FILING DATE: 1999-01-12
PRIOR APPLICATION NUMBER: 60/167,866
PRIOR FILING DATE: 1999-11-01
PRIOR APPLICATION NUMBER: PCT/US00/00724
PRIOR FILING DATE: 2000-01-11
NUMBER OF SEQ ID NOS: 989
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 740
LENGTH: 156
TYPE: PRT
ORGANISM: Pinus radiata
US-10-101-464A-740

Query Match      55.2% Score 37:
Best Local Similarity 46.2% Pred. No. 28
Matches 6; Conservative 5; Mismatch(es)
Oy      4 VPKQKSLTPNLK 16
Db      88 IIGELGSPHLQ 100

```

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OM protein - protein search, using sw model

Run on: July 16, 2003, 06:51:00 ; Search time 2.94949 Seconds

(without alignments) 159.609 Million cell updates/sec

Title: US-09-308-140-5

Perfect score: 67

Sequence: 1 XKEVIPXQLSTLPNLK 16

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_AA:*

1: /cgn2_6/pctdata/1/iaa/5A COMB.pep: *
 2: /cgn2_6/pctdata/1/iaa/5B COMB.pep: *
 3: /cgn2_6/pctdata/1/iaa/6A COMB.pep: *
 4: /cgn2_6/pctdata/1/iaa/6B COMB.pep: *
 5: /cgn2_6/pctdata/1/iaa/PCUTUS COMB.pep: *
 6: /cgn2_6/pctdata/1/iaa/backfile1.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

| Result No. | Score | Query | Match | Length | DB | ID | Description |
|------------|-------|-------|-------|-------------------|---------------------|--------------------|----------------------|
| 1 | 63 | 94.0 | 16 | 3 | US-08-898-351-5 | | Sequence 5, Appli |
| 2 | 39 | 58.2 | 162 | 4 | US-08-858-207A-63 | | Sequence 263, Appli |
| 3 | 39 | 58.2 | 327 | 1 | US-08-238-163-4 | | Sequence 4, Appli |
| 4 | 39 | 330 | 1 | US-08-238-163-2 | | Sequence 2, Appli | |
| 5 | 39 | 56.7 | 711 | 4 | US-09-228-986-79 | | Sequence 79, Appli |
| 6 | 37 | 55.2 | 635 | 4 | US-09-142-623-1 | | Sequence 1, Appli |
| 7 | 37 | 55.2 | 910 | 4 | US-09-228-986-72 | | Sequence 72, Appli |
| 8 | 36 | 53.7 | 1382 | 3 | US-09-057-570-4 | | Sequence 4, Appli |
| 9 | 35 | 52.2 | 227 | 1 | US-08-244-646-17 | | Sequence 17, Appli |
| 10 | 35 | 52.2 | 270 | 4 | US-09-134-001C-5441 | | Sequence 5441, Appli |
| 11 | 35 | 52.2 | 342 | 1 | US-08-244-646-15 | | Sequence 15, Appli |
| 12 | 35 | 52.2 | 342 | 1 | US-08-592-936B-21 | | Sequence 263, Appli |
| 13 | 35 | 52.2 | 443 | 1 | US-08-399-986B-2 | | Sequence 21, Appli |
| 14 | 35 | 52.2 | 443 | 1 | US-08-399-986B-2 | | Sequence 2, Appli |
| 15 | 35 | 52.2 | 443 | 1 | US-08-493-754A-2 | | Sequence 2, Appli |
| 16 | 35 | 52.2 | 466 | 1 | US-08-493-754A-2 | | Sequence 2, Appli |
| 17 | 35 | 52.2 | 1005 | 2 | US-08-935-450-2 | | Sequence 2, Appli |
| 18 | 34 | 482 | 4 | US-09-457-046B-63 | | Sequence 63, Appli | |
| 19 | 34 | 50.7 | 749 | 4 | US-09-562-737-99 | | Sequence 99, Appli |
| 20 | 34 | 50.7 | 1657 | 3 | US-09-562-737-99 | | Sequence 2, Appli |
| 21 | 34 | 50.7 | 1805 | 3 | US-09-057-570-2 | | Sequence 7, Appli |
| 22 | 33 | 49.3 | 35 | 2 | US-08-392-625-35 | | Sequence 35, Appli |
| 23 | 33 | 49.3 | 35 | 2 | US-08-466-961A-35 | | Sequence 35, Appli |
| 24 | 33 | 49.3 | 40 | 2 | US-08-641-1930-66 | | Sequence 66, Appli |
| 25 | 33 | 49.3 | 157 | 4 | US-09-228-986-90 | | Sequence 90, Appli |
| 26 | 33 | 49.3 | 456 | 2 | US-08-910-731-2 | | Sequence 2, Appli |
| 27 | 33 | 49.3 | 456 | 2 | US-08-910-731-8 | | Sequence 8, Appli |

ALIGNMENTS

RESULT 1
 US-08-898-351-5
 ; Sequence 5, Application US/08898351A
 ; Patent No. 609687
 ; GENERAL INFORMATION:
 ; APPLICANT: UNILEVER UNITED STATES, INC
 ; TITLE OF INVENTION: FROZEN FOOD PRODUCT
 ; FILE REFERENCE: FROZEN FOOD PRODUCT
 ; CURRENT APPLICATION NUMBER: US/08/898,351A
 ; CURRENT FILING DATE: 1997-07-22
 ; NUMBER OF SEQ ID NOS: 5
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 5
 ; LENGTH: 16
 ; TYPE: PRT
 ; ORGANISM: CARROT ROOT
 ; FEATURE:
 ; NAME/KEY: UNSURE
 ; LOCATION: (1). (7)
 ; OTHER INFORMATION: Xaa represents any amino acid found in plant
 ; OTHER INFORMATION: protein

US-08-898-351-5
 ; Query Match 94.0%; Score 63; DB 3; Length 16;
 ; Best Local Similarity 100.0%; Ped. No. 3.3e-05;
 ; Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 ; QY 3 EVIPXQLSTLPNLK 16
 ; DB 3 EVIPXQLSTLPNLK 16
 ; Db 3 EVIPXQLSTLPNLK 16

RESULT 2
 US-08-858-207A-263
 ; Sequence 263, Application US/08858207A
 ; Patent No. 6348328
 ; GENERAL INFORMATION:
 ; APPLICANT: Black, Michael
 ; APPLICANT: Hodgson, John
 ; APPLICANT: Knowles, David
 ; APPLICANT: Nicholas, Richard
 ; APPLICANT: Stodola, Robert
 ; TITLE OF INVENTION: No. 63483281 Compounds
 ; NUMBER OF SEQUENCES: 552
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SmithKline Beecham Corporation
 ; STREET: 709 Swedland Road
 ; CITY: King of Prussia
 ; STATE: PA
 ; COUNTRY: USA

PATENT NO. 6359198
 GENERAL INFORMATION:
 APPLICANT: Stabala, Timothy
 APPLICANT: Nieuwenhuizen, Niels
 TITLE OF INVENTION: Compositions isolated from Plant Cells and Their Use in the Modification of Plant Cell Signalling
 FILE REFERENCE: 110001/020
 CURRENT FILING DATE: 1999-01-12
 NUMBER OF SEQ ID NOS: 130
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 79
 LENGTH: 711
 TYPE: PRT
 ORGANISM: *Pinus radiata*
 S-09-228-986-79

RESULT 6
 US-09-142-623-1
 Sequence 1, Application US/09142623
 Patent No. 6337201
 GENERAL INFORMATION:
 APPLICANT: Koji YANAI et al.
 TITLE OF INVENTION: -FRUCTOFURANOSIDASE AND ITS GENE, METHOD OF ISOLATING -FRUCTOFURANOSIDASE GENE, SYSTEM FOR PRODUCING TITLE OF INVENTION: -ISOLATING -FRUCTOFURANOSIDASE, AND -FRUCTOFURANOSIDASE VARIANT
 NUMBER OF INVENTION: -
 NUMBER OF SEQUENCES: 35
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Wenderoth, Lind & Ponack, L.L.P.
 STREET: 2033 K Street, N.W., Suite 800
 CITY: Washington
 STATE: D.C.
 COUNTRY: U.S.A.
 ZIP: 20006

COMPUTER READABLE FORM:
 COMPUTER TYPE: Diskette, 3.5 inch, 1.44 mb
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: MS-DOS
 SOFTWARE: Wordperfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/142-623
 FILING DATE: September 10, 1998
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Lee Cheng
 REGISTRATION NUMBER: 40, 949
 REFERENCE/DOCKET NUMBER: 98-0989*/LC (WMC) / 144
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-721-8200
 TELEFAX: 202-721-8250
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCING CHARACTERISTICS:
 LENGTH: 635 amino acids residues
 TYPE: amino acid
 STRANDEDNESS: No. 6337201 relevant
 TOPOLOGY: No. 6337201 relevant
 MOLECULE TYPE: protein
 ORIGINAL SOURCE:
 ORGANISM: Microorganism: *Aspergillus niger* ACE-2-1
 ORGANISM: (ATCC 20611)
 FEATURE:
 NAME/KEY: mat peptide

RESULT 7
 US-09-228-986-72
 Sequence 72, Application US/09228986
 Patent No. 6359198
 GENERAL INFORMATION:
 APPLICANT: Stabala, Timothy
 APPLICANT: Nieuwenhuizen, Niels
 TITLE OF INVENTION: Compositions isolated from Plant Cells and Their Use in the Modification of Plant Cell Signalling
 FILE REFERENCE: 110001/020
 CURRENT APPLICATION NUMBER: US/09/228, 986
 CURRENT FILING DATE: 1999-01-12
 NUMBER OF SEQ ID NOS: 130
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 72
 LENGTH: 910
 TYPE: PRT
 ORGANISM: *Pinus radiata*
 S-09-228-986-72

RESULT 8
 US-09-057-570-4
 Sequence 4, Application US/09057570
 Patent No. 603266
 GENERAL INFORMATION:
 APPLICANT: Segers, Ruud P.A.M.
 APPLICANT: Frey, Joachim
 TITLE OF INVENTION: Live attenuated *Actinobacillus*
 TITLE OF INVENTION: *Pleuropneumoniae*
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Akzo No. 60132661 Patent Department
 STREET: 1300 Piccard Drive, Suite 206
 CITY: Rockville
 STATE: Maryland
 COUNTRY: USA
 ZIP: 20850

COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC/POS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/057, 570
 FILING DATE: 09-APR-1998
 ATTORNEY/AGENT INFORMATION:
 NAME: Goralsky, Mary E.
 REGISTRATION NUMBER: 34,409
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (301) 948-7400
 TELEFAX: (301) 948-9751

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 1382 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-0570-4

RESULT 9

US 08-244-646-17

Sequence 17, Application US/08244646

PATENT NO. 574492

GENERAL INFORMATION:

QY 4 VIPKOLSTLNK 16

Db 759 VTPSQLSSIRNVK 771

RESULT 10

US 09-134-001C-5441

Sequence 5441, Application US/09134001C

PATENT NO. 6390370

GENERAL INFORMATION:

APPLICANT: Lynn Doucette-Stamm et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS FILE REFERENCE: GTC-007

CURRENT APPLICATION NUMBER: US/09/134, 001C

CURRENT FILING DATE: 1998-08-13

PRIOR APPLICATION NUMBER: US 60/064, 964

PRIOR FILING DATE: 1997-11-08

PRIOR APPLICATION NUMBER: US 60/055, 779

PRIOR FILING DATE: 1997-08-14

NUMBER OF SEQ ID NOS: 5674

SEQ ID NO. 5441

LENGTH: 270

TYPE: PRT

ORGANISM: *Staphylococcus epidermidis*

US-09-134-001C-5441

Query Match 52.2%; Score 35; DB 4; Length 270;

Best Local Similarity 45.5%; Pred. No. 79; Mismatches 2; Indels 0; Gaps 0;

Matches 5; Conservative 4; Mismatches 2;

QY 4 VIPXOQLSTLPN 14

Db 127 IMPNQIITPN 137

RESULT 11

US-08-244-646-15

Sequence 15, Application US/08244646

PATENT NO. 5744692

GENERAL INFORMATION:

APPLICANT: Cervone, Felice

APPLICANT: De Lorenzo, Giulia

APPLICANT: Salvi, Giovanni

APPLICANT: Albersheim, Peter

APPLICANT: Darvill, Alan

APPLICANT: Bergmann, Carl

TITLE OF INVENTION: Nucleotide Sequences Coding An

NUMBER OF SEQUENCES: 17

CORRESPONDENCE ADDRESS:

ADDRESSEE: Sally A. Sullivan

STREET: 5370 Manhattan Circle Suite 201

CITY: Boulder

STATE: CO

COUNTRY: US

ZIP: 80303

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC DOS/MS-DOS

SOFTWARE: Patient in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/244, 646

FILING DATE: 06-JUN-1994

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: IT RM 91A 000915

FILING DATE: 06-DEC-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: WO PCT/IT/00158

FILING DATE: 04-DEC-1992

ATTORNEY/AGENT INFORMATION:

NAME: Sullivan, Sally A.

REGISTRATION NUMBER: 32,064

REFERENCE/DOCKET NUMBER: 19-94

TELECOMMUNICATION INFORMATION:

TELEPHONE: (303)499-8080

TELEFAX: (303)499-8089

INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

LENGTH: 227 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-244-646-17

Query Match 52.2%; Score 35; DB 1; Length 227;

Best Local Similarity 54.5%; Pred. No. 65; Mismatches 2; Indels 0; Gaps 0;

Db 5 IPXQQLSTLPNL 15

REGISTRATION NUMBER: 32,064
 REFERENCE/DOCKET NUMBER: 19-94
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (303)499-8080
 TELEFAX: (303)499-8089
 INFORMATION FOR SEQ ID NO: 15:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 342 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 US-08-244-646-15

Query Match 52.2%; Score 35; DB 1; Length 342;
 Best Local Similarity 54.5%; Pred. No. 1e+02;
 Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
 QY 5 IPXQOLSTLPNL 15
 Db 170 LPPSISLPLNL 180

RESULT 12
 US-08-592-936B-21
 Sequence 21, Application US/08592936B
 PATENT NO. 5733393
 GENERAL INFORMATION:
 APPLICANT: Kellogg, Jill A.
 ATTORNEY: Bestwick, Richard K.
 TITLE OF INVENTION: REGULATED EXPRESSION OF TRANSGENES IN PLANTS
 NUMBER OF SEQUENCES: 27
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dehlinger & Associates
 STREET: 350 Cambridge Avenue, Suite 250
 CITY: Palo Alto
 STATE: CA
 COUNTRY: USA
 ZIP: 94306
 COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 MEDIUM TYPE: Diskette
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSeq for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/111,573
 FILING DATE:
 CLASSIFICATION:
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US/08/592,936
 FILING DATE: 29-JAN-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Evans, Susan T.
 REGISTRATION NUMBER: 38,443
 REFERENCE/DOCKET NUMBER: 4257-0012
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650) 324-0880
 TELEFAX: (650) 324-0860
 INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 342 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 MOLECULE TYPE: protein
 HYPOTHETICAL: NO
 ORIGINAL SOURCE:
 INDIVIDUAL ISOLATE: predicted amino acid coding sequence
 INDIVIDUAL ISOLATE: of SEQ ID NO:20
 US-09-111-573-21

Query Match 52.2%; Score 35; DB 2; Length 342;
 Best Local Similarity 54.5%; Pred. No. 1e+02;
 Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
 QY 5 IPXQOLSTLNL 15
 Db 170 LPPSISLPLNL 180

RESULT 14
 US-08-939-986B-2
 Sequence 2, Application US/08399986B
 Patent No. 5801041
 GENERAL INFORMATION:
 APPLICANT: Godwin, Andrew K.
 ATTORNEY: Bestwick, Richard K.
 TITLE OF INVENTION: No. 5801041el Gene Associated with Suppression
 NUMBER OF SEQUENCES: 35
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dunn, Borzman, Herrell and Skillman
 STREET: 1601 Market Street
 CITY: Philadelphia

Query Match 52.2%; Score 35; DB 1; Length 342;
 Best Local Similarity 54.5%; Pred. No. 1e+02;
 Matches 6; Conservative 3; Mismatches 2; Indels 0; Gaps 0;
 QY 5 IPXQOLSTLNL 15
 Db 170 LPPSISLPLNL 180

